

Material Safety Data Sheet

Ultratect DURON

Issue Date: June 2012

Issued by Beam Rustproofing

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name Ultratect DURON

Company Name Beam Rustproofing
Address 27 Hargreaves Street
Belmont WA 6104
Telephone (08) 9325 1399
Fax (08) 9325 2431
Recommended Use: Corrosion, Stain and Graffiti Resistant Clearcoat
Other Names Ultratect Clearcoat

2. HAZARDS IDENTIFICATION

Hazard Classification: HAZARDOUS SUBSTANCE
Dangerous Goods Classification : DANGEROUS GOODS

Human health hazards

Classification : Harmful; dangerous for the environment; Highly flammable;
Highly flammable. Harmful by inhalation. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Special hazard instructions for humans and environment

Contains: bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate; methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate; n-butyl methacrylate. May produce an allergic reaction. Keep away from sources of ignition - No smoking. Do not breathe vapour/spray. Take precautionary measures against static discharges. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid release to the environment. Refer to special instructions/ Safety data sheets..

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical characterization

Mixture of synthetic resins, pigments, and solvents

Hazardous components

CAS-No.	Chemical Name	Concentration	Classification
110-43-0	heptan-2-one	20.00 - < 25.00 %	R10 Xn; R20/22
110-12-3	5-methylhexan-2-one	5.00 - < 7.00 %	R10 Xn; R20
67-64-1	acetone	3.00 - < 5.00 %	Xi; R36 R66 R67
64742-88-7	solvent naphtha (petroleum), medium aliph.	3.00 - < 5.00 %	Xn; R65 NoraH
142-82-5	heptane (mixture of isomers)	2.50 - < 3.00 %	F; R11 Xi; R38 Xn; R65 R67 N; R50/53
123-86-4	n-butyl acetate	1.00 - < 2.00 %	R10 R66 R67
67-63-0	propan-2-ol	1.00 - < 2.00 %	F; R11 Xi; R36 R67
41556-26-7	bis(1,2,2,6,6-pentamethyl-4-piperidyl) seba-cate	0.50 - < 1.00 %	N; R50/53 R43
95-63-6	1,2,4-trimethylbenzene	0.10 - < 0.20 %	R10 Xn; R20 Xi; R36/37/38 N; R51/53

Material Safety Data Sheet

Ultratect DURON

Issue Date: June 2012

Issued by Beam Rustproofing

CAS-No.	Chemical Name	Concentration	Classification
64742-95-6	solvent naphtha (petroleum), light arom. (<0,1% benzene)	0.10 - < 0.20 %	R10 Xi; R37 N; R51/53 Xn; R65 R66 R67 NotaH NotaP
82919-37-7	methyl 1,2,2,6,6-pentamethyl-4- piperidyl se- bacate	0.10 - < 0.20 %	R43 N; R50/53
97-88-1	n-butyl methacrylate	0.10 - < 0.20 %	R10 Xi; R36/37/38 R43 NotaD

Additional advice

See full text of R-phrases in chapter 16.

4. FIRST AID MEASURES

Inhalation:	Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
Ingestion:	If swallowed, seek medical advice immediately and show the container label. Keep person warm and at rest. Do not induce vomiting.
Skin contact:	Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners.
Eye contact:	Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keep eyelids open. Seek immediate medical attention.
Advice to Doctor:	No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

5. FIRE FIGHTING MEASURES

Extinguishing media

Suitable:	Foam, carbon dioxide, dry chemical powder, water spray and water fog.
Not Suitable:	Do not use water jet.

Hazards from Combustion:	Decomposition products may include the following materials: Carbon oxides Halogenated compounds Metal oxide/oxides Formaldehyde
---------------------------------	---

Specific Exposure Hazards:	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool. This material is toxic to aquatic organisms. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
-----------------------------------	---

Flammable liquid. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Runoff to sewer may create fire or explosion hazard.

Special protective equipment for fire-fighters::	Fire-fighters should wear full protective clothing and self contained breathing apparatus (SCBA) with full face-piece operated in positive pressure mode.
---	---

Hazchem code:	3[Y]
----------------------	------

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).
------------------------------	---

Environmental precautions:	Avoid dispersal of split material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.
-----------------------------------	--

Material Safety Data Sheet

Ultratect DURON

Issue Date: June 2012

Issued by Beam Rustproofing

Large Spill:

Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Use spark-proof tools and explosive-proof equipment. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. Note: see section 1 for emergency contact information and section 13 for waste disposal.

Small Spill:

Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contract

7. HANDLING AND STORAGE

All users should refer to the product Technical Data Sheet (TDS) before use.

Handling:

Put on appropriate personal protective equipment (see Section 8) Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin and clothing. Do not ingest. Avoid breathing vapour or mist. Avoid release to the environment. Refer to special instructions/safety data sheet. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use non-sparking tools. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container.

Storage:

Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed until ready to use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limits

CAS-No.	Chemical Name	Values	Control Parameters	Basis
110-43-0	heptan-2-one	TWA	233 mg/m ³ 50 ppm	NOHSC:1003(2003) NOHSC:1003(2003)
110-12-3	5-methylhexan-2-one	TWA	234 mg/m ³ 50 ppm	NOHSC:1003(2003) NOHSC:1003(2003)
67-64-1	acetone	STEL	2,375 mg/m ³ 1,000 ppm	NOHSC:1003(2003) NOHSC:1003(2003)
		TWA	1,185 mg/m ³ 500 ppm	NOHSC:1003(2003) NOHSC:1003(2003)
64742-88-7	solvent naphtha (petroleum), medium aliph.			no exposure standard allocated
142-82-5	heptane (mixture of isomers)	STEL	2,050 mg/m ³ 500 ppm	NOHSC:1003(2003) NOHSC:1003(2003)
		TWA	1,640 mg/m ³ 400 ppm	NOHSC:1003(2003) NOHSC:1003(2003)
123-86-4	n-butyl acetate	STEL	950 mg/m ³ 200 ppm	NOHSC:1003(2003) NOHSC:1003(2003)
		TWA	713 mg/m ³ 150 ppm	NOHSC:1003(2003) NOHSC:1003(2003)
67-63-0	propan-2-ol	STEL	1,230 mg/m ³ 500 ppm	NOHSC:1003(2003) NOHSC:1003(2003)
		TWA	983 mg/m ³ 400 ppm	NOHSC:1003(2003) NOHSC:1003(2003)

Material Safety Data Sheet

Ultratect DURON

Issue Date: June 2012

Issued by Beam Rustproofing

41556-26-7	bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate			no exposure standard allocated
95-63-6	1,2,4-trimethylbenzene	TWA	25 ppm	NOHSC:1003(2003)
64742-95-6	solvent naphtha (petroleum), light arom. (<0,1% benzene)			no exposure standard allocated
82919-37-7	methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate			no exposure standard allocated
97-88-1	n-butyl methacrylate			no exposure standard allocated

Recommended monitoring

If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and or the necessity to use respiratory protective equipment,

Exposure Controls:

Engineering measures:

Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Hygiene measures:

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the toilet and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Respiratory:

If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Eyes:

Chemical splash goggles.

Hands:

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Gloves:

butyl rubber.

Skin:

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Environmental exposure

Controls:

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

References: Eye protectors should conform to AS/NZS 1336 and AS/NZS 1337. Chemical-resistant gloves should conform to AS/NZS 2161.1. Repertory protections should conform to AS/NZS 1715 and AS/NZS 1716. Occupational footwear should conform to AS/NZS 2210.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form: liquid Colour: clear Odour: Characteristic Paint Odor

Important physical and chemical information

	Value	Method
Flash point	15 °C	
Ignition temperature	215 °C	DIN 51794
Boiling point/boiling range	152 °C	
Lower explosion limit	1.1 %	
Upper explosion limit	7.9 %	
Vapour pressure	12.3 hPa	
Relative density	0.94 g/cm ³	DIN 53217/ISO 2811
Water solubility	moderate	
Viscosity (23 °C)	Not applicable.	ISO 2431-1993
Solvent separation test	< 3%	ADR/RID
Content of volatile components (including water)	50.5%	Basis Vapour pressure >= 0.01 kPa
pH	Not applicable.	

Material Safety Data Sheet

Ultratect DURON

Issue Date: June 2012

Issued by Beam Rustproofing

10. STABILITY AND REACTIVITY

Stability: Stable

Conditions to avoid: Stable under recommended storage and handling conditions (see section 7).

Materials to avoid: Keep away from oxidising agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

Hazardous decomposition products: When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide and dioxide, smoke, oxides of nitrogen.

11. TOXICOLOGICAL INFORMATION

General observations

There is no data available on the product. See sections 3 and 15 for details.

Practical experience

Exposure to component solvents vapors concentration in excess of the stated occupational exposure limit may result in adverse health effect such as mucous membrane and respiratory system irritation and adverse effect on kidney, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. Through skin reabsorption, solvents can cause some of the effects described here. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and absorption through the skin. The liquid splashed in the eyes may cause irritation and reversible damage. Contains bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate, methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate, n-butyl methacrylate. May produce an allergic reaction.

Toxicity Test Type	Value	Time	Species
heptan-2-one			
Oral LD50	1,600 mg/kg		rat
Oral LD50	= 730 mg/kg		mouse
Dermal LD50	10.206 g/kg		rabbit
Inhalation LC50	2,000 ppm	4 h	rat
5-methylhexan-2-one			
Oral LD50	5,700 mg/kg		rat
Dermal LD50	16,280 mg/kg		guinea pig
Inhalation LC50	3,813 ppm	6 h	rat
Oral LOEL	2,000 mg/kg	24 h	rat
Inhalation NOEL	200 ppb	4 h	rat
Inhalation LOEL	1,000 ppm	4 h	rat
acetone			
Oral LD50	5,800 mg/kg		rat
Dermal LD50	20 g/kg		rabbit
Inhalation LC50	50.1 g/m3	8 h	rat
solvent naphtha (petroleum), medium aliph.			
Oral LD50	34.6 g/kg		rat
Dermal LD50	15.4 g/kg		rabbit
Inhalation LC50	15.4 g/kg	4 h	rat
heptane (mixture of isomers)			
Oral LD50	= 5,000 mg/kg		mouse
Dermal LD50	2,000 mg/kg		rabbit
Inhalation LC50	103,000 mg/m3	4 h	rat
Intravenous LD50	222 mg/kg		mouse
n-butyl acetate			
Oral LD50	> 5,000 ml/kg		rat
Dermal LD50	> 5,000 ml/kg		rabbit
Inhalation LC50	> 6,335 ppm	4 h	rat
propan-2-ol			
Oral LD50	> 2,000 mg/kg		rat
Dermal LD50	> 2,000 mg/kg		rabbit
Inhalation LC50	> 5,000 ppm	8 h	rat
Percutaneous LD50	13,000 ml/kg		rabbit
bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate			
Oral LD50	3,125 mg/kg		rat
Dermal LD50	> 2,000 mg/kg		rat

Material Safety Data Sheet

Ultratect DURON

Issue Date: June 2012

Issued by Beam Rustproofing

Toxicity Test Type	Value	Time	Species
1,2,4-trimethylbenzene			
Oral LD50	5,000 mg/kg		rat
Inhalation LC50	18,000 mg/m3	4 h	rat
solvent naphtha (petroleum), light arom. (<0,1% benzene)			
Oral LD50	> 5,000 mg/kg		rat
Dermal LD50	> 3,160 mg/kg		rat
Inhalation LD50	> 3,670 ppm	4 h	rat
Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate			
Oral LD50	> 2,000 mg/kg		rat
Dermal LD50	> 2,000 mg/kg		rat
n-buty methacrylate			
Oral LD50	22,600 mg/kg		rat
Dermal LD50	11,300 mg/kg		rat
Inhalation LC50	4,910 ppm	4 h	rat

12. ECOLOGICAL INFORMATION

Environmental effects:	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Water polluting material. May be harmful to the environment if released in large quantities.
Other ecological information:	Not available.
Biodegradability:	Not available.
Persistence/degradability:	Not available.
Conclusion/Summary:	Not available.
Mobility:	Not available.
Other adverse effects:	No known significant effects or critical hazards. Do not allow to enter drains or watercourses.

13. DISPOSAL CONSIDERATIONS

Waste disposal:	The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilt materials and runoff and contact with soil, waterways, drains and sewers.
------------------------	--

Disposal should be in accordance with applicable regional, national and local laws and regulations.
Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees. Section 6. Accidental release measures

14. TRANSPORT INFORMATION

Transport in accordance with the requirements of the Carriage of Dangerous Goods by Road and Rail (Classifications, Packaging and Labeling), ADG for road, IMDG for sea and ICAO/IATA for air transport.

ADG (Land transport)

Proper shipping name: PAINT
 UN-Number: 1263
 Hazard Class: 3
 Subsidiary Hazard Class: N/A.
 Packing group: II
 Hazchem: 3YE

IMDG (Sea transport)

Proper shipping name: PAINT
 UN-Number: 1263
 Hazard Class: 3
 Subsidiary Hazard Class: N/A.
 Packing group: II
 Marine Pollutant: N
 EmS: F-E,S-E

ICAO/IATA (Air transport)

Proper shipping name: PAINT
 UN-Number: 1263
 Hazard Class: 3
 Subsidiary Hazard Class: N/A
 Packing group: II

Material Safety Data Sheet

Ultratect DURON

Issue Date: June 2012

Issued by Beam Rustproofing

15. REGULATORY INFORMATION

Symbol and indication of hazard.

F	Highly flammable
Xn	Harmful
N	Dangerous for the environment

R-phrases(s)

R11	Highly flammable.
R20	Harmful by inhalation.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrases(s)

S16	Keep away from sources of ignition - No smoking.
S23	Do not breathe vapour/spray.
S33	Take precautionary measures against static discharges.
S38	In case of insufficient ventilation, wear suitable respiratory equipment.
S61	Avoid release to the environment. Refer to special instructions/ Safety data sheets.

Contains: bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate; methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate; n-butyl methacrylate. May produce an allergic reaction.

Standard for the Uniform Scheduling of Drugs and Poisons.

Schedule 6

16. OTHER INFORMATION

Full text of R phrases with no. appearing in section 3

R10	Flammable.
R11	Highly flammable.
R20	Harmful by inhalation.
R20/22	Harmful by inhalation and if swallowed. R36 Irritating to eyes.
R36/37/38	Irritating to eyes, respiratory system and skin. R37 Irritating to respiratory system.
R38	Irritating to skin.
R43	May cause sensitization by skin contact.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R65	Harmful: may cause lung damage if swallowed.
R66	Repeated exposure may cause skin dryness or cracking. R67 Vapours may cause drowsiness and dizziness.

Sources of key data used to compile the datasheet:

1. National Code of Practice for the Preparation of Material Safety Data Sheets 2nd Edition (NOHSC:2011(2003))
2. Approved Criteria for Classifying Hazardous Substances (NOHSC:1008(1999))
3. List of Designated Hazardous Substances (NOHSC:10005(1999))
4. Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment (NOHSC:1003(1995))
5. Australian Dangerous Goods Code, No. 6 (National Road Transport Commission)
6. Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP)
7. National Code of Practice for the Labeling of Workplace Substances ((NOHSC:2012 (1994))

The information presented herein is true and accurate to the best of our knowledge, but without guarantee unless explicitly given. Since the conditions of use are beyond our control, we disclaim any liability including for patent infringement incurred in connection with the use of these products, data and suggestions.

Contact Point: Gary Pilatti
Beam – 27 Hargreaves St Belmont WA 6104
Ph: (08) 932512399 Fax:(08) 93252431

Dated: 25/6/2012