ROULUNDS braking

MATERIAL SAFETY DATA SHEET

YR 15B4

Revision 0
Revision date 2015-03-04

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

1.1. Product identifier

Product name	YR 15B4
Product Subcategory	Friction materials for automobile.

1.3. Details of the supplier of the safety data sheet

Company	Roulunds Braking Denmark ApS
Address	Hestehaven 55 - DK-5260 Odense S Denmark
Web	www.roulunds-braking.dk
Telephone	00 45 63 134 700
Fax	00 45 63 134 701
Email	info@roulunds-braking.dk
Email address of the competent person	sds@roulunds-braking.dk

Emergency telephone number

Emergency telephone number	00 45 63 134 700

SECTION 2: Hazards identification

Properties

Color	Black/Grey
State	Solid

Main hazards

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

SECTION 3: Composition/information on ingredients

Hazardous ingredients

67/548/EEC / 1999/45/EC

Chemical Name	Conc. (%w/w)	CAS No.
Carbon Black	0 - 0.5%	1333-86-4
Di(benzothiazol-2-yl) disulphide	0 - 0.5%	120-78-5
Zinc oxide	1 - 10%	1314-13-2
Furfuryl alcohol	0.5 - 1%	98-00-0
Phenol	0 - 0.5%	108-95-2
Formaldehyde…% (Formaldehyde)	0 - 0.5%	50-00-0

Description

Contains no free substances that are considered to be hazardous. However, when being worked with mechanically it is possible that a fine dust is formed.

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Description	
	Do not breathe dust.

SECTION 4: First aid measures

Description of first aid measures

Inhalation	Do not breathe dust. Move the exposed person to fresh air.
Eye contact	Dust. Rinse immediately with plenty of water for 15 minutes holding the eyelids open.
Skin contact	Wash off immediately with plenty of soap and water.
Ingestion	Dust. Rinse mouth thoroughly. Drink 1 to 2 glasses of water.

Most important symptoms and effects, both acute and delayed

Skin contact	May cause irritation to skin.

SECTION 5: Firefighting measures

Extinguishing media

	Powder. Carbon dioxide (CO_2). Water spray. Foam.

Special hazards arising from the substance or mixture

	Further information. SECTION 10: Stability and reactivity.

Further information

	Are non inflammable.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

	Further information. SECTION 8: Exposure controls/personal protection.

Methods and material for containment and cleaning up

	Not applicable.

Reference to other sections

	See section 13 for information on waste disposal.

SECTION 7: Handling and storage

Precautions for safe handling

Use:	Avoid raising dust. Clean the area using a vacuum cleaner. Keep away from acids, Bases.
	If mechanically processed provide local dust extraction. Do not use brushes, compressed air or other hazardous agents to clean the brake or brake pads.

Conditions for safe storage, including any incompatibilities

	Keep container tightly closed and dry.
Suitable packaging	Store in original container.

SECTION 8: Exposure controls/personal protection

Control parameters

Exposure Limit Values

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Exposure Limit Values

Carbon Black	ACGIH TLV TWA:	3.5 mg/m³	ACGIH TLV STEL:	-
	Notations:	A4	OSHA PEL 8hr TWA ppm:	-
	OSHA PEL 8hr TWA mg m3:	3.5	Skin Designation:	-
Formaldehyde…% (Formaldehyde)	ACGIH TLV TWA:	-	ACGIH TLV STEL:	C 0.3 ppm
	Notations:	SEN; A2	OSHA PEL 8hr TWA ppm:	-
	OSHA PEL 8hr TWA mg m3:	-	Skin Designation:	-
Furfuryl alcohol	ACGIH TLV TWA:	10 ppm	ACGIH TLV STEL:	15 ppm
	Notations:	Skin	OSHA PEL 8hr TWA ppm:	50
	OSHA PEL 8hr TWA mg m3:	200	Skin Designation:	-
Phenol	ACGIH TLV TWA:	5 ppm	ACGIH TLV STEL:	-
	Notations:	Skin; A4; BEI	OSHA PEL 8hr TWA ppm:	5
	OSHA PEL 8hr TWA mg m3:	19	Skin Designation:	X
Zinc oxide	ACGIH TLV TWA:	2 mg/m³ (R)	ACGIH TLV STEL:	10 mg/m³ (R)
	Notations:	-	OSHA PEL 8hr TWA ppm:	-
	OSHA PEL 8hr TWA mg m3:	15	Skin Designation:	-

Exposure controls

Appropriate engineering controls	Ensure adequate ventilation of the working area.
Eye / face protection	Dust. Eye protection.
Skin protection - Hand protection	Wear suitable gloves. Hand protection. dustproof.
Skin protection - Other	Wear suitable protective clothing.
Respiratory protection	Do not breathe dust. Use as appropriate: P2 mask.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

State	Solid
Color	Black/Grey

SECTION 10: Stability and reactivity

Chemical stability

Stable under normal conditions.

Incompatible materials

Avoid contact with: Acids, Bases.

Hazardous decomposition products

Burning produces irritating, toxic and obnoxious fumes.

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity	No Significant Hazard.
Skin corrosion/irritation	May cause irritation to skin.

11.1.4. Toxicological information

Not determined

SECTION 12: Ecological information

Toxicity

Not determined

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SECTION 13: Disposal considerations

Disposal methods

Local and national regulations.

SECTION 14: Transport information

DOT

The product is not classified as dangerous for carriage.

IMDG

The product is not classified as dangerous for carriage.

IATA

The product is not classified as dangerous for carriage.

SECTION 15: Regulatory information

Inventories

Ingredient	TSCA	MA	SARA313	CALPROP65	CWA307	CAA112	CWA311	SARA302	SARA304
Carbon Black (Carbon black)	Y	N	N	Y	N	N	N	N	N
Di(benzothiazol-2-yl) disulphide (Benzothiazole, 2,2'-dithiobis-)	Y	N	N	N	N	N	N	N	N
Zinc oxide (Zinc oxide (ZnO))	Y	N	N	N	N	N	N	N	N
Furfuryl alcohol (2-Furanmethanol)	Y	N	N	N	N	N	N	N	N
Phenol	Y	Y	Y 1.0	N	Y	Y	Y	Y 500/10,000	Y 1,000
Formaldehyde…% (Formaldehyde)	Y	Y	Y 0.1	Y	N	Y	Y	Y 500	Y 100

SECTION 16: Other information

Other information

General Guidelines for Brake Service. When changing the brake linings, the content of the friction materials on the vehicle may be unknown, so it is recommended to follow the guidelines given in “Work Practices and Engineering Controls for Brake and Clutch Inspection, Disassembly, Repair and Assembly – Mandatory” (29 CFR 1910.1001, Appendix F).

Further information

The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process.

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