

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Rösler Tyrefill Duro TDI CAT**

Revision date: 23.05.2017

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**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Rösler Tyrefill DuroTDI CAT

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

Polyurethane castable elastomer component A for tyrefilling.

**1.3. Details of the supplier of the safety data sheet**

Company name: Rösler Tyre Innovators GmbH

Street: Ezzestr. 5

Place: D-44379 Dortmund

Telephone: +49 (0)231 917078-00

Telefax: +49 (0)231 917078 12

e-mail: [roesler@roesler-tyres.com](mailto:roesler@roesler-tyres.com)**1.4. Emergency telephone number:**

+49 (231) 917078 - 00

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Regulation (EC) No. 1272/2008**

Hazard categories:

Acute toxicity: Acute Tox. 4

Carcinogenicity: Carc. 1A

Reproductive toxicity: Repr. 2

Specific target organ toxicity - repeated exposure: STOT RE 2

Hazardous to the aquatic environment: Aquatic Acute 1

Hazardous to the aquatic environment: Aquatic Chronic 1

Hazard Statements:

Harmful if inhaled.

May cause cancer.

Suspected of damaging the unborn child.

May cause damage to organs through prolonged or repeated exposure.

Very toxic to aquatic life with long lasting effects.

**2.2. Label elements****Regulation (EC) No. 1272/2008****Hazard components for labelling**

Heavy Fuel oil, Residues (petroleum), catalytic reformer fractionator

**Signal word:** Danger**Pictograms:****Hazard statements**

H332 Harmful if inhaled.

H350 May cause cancer.

H361d Suspected of damaging the unborn child.

H373 May cause damage to organs through prolonged or repeated exposure.

H410 Very toxic to aquatic life with long lasting effects.

**Precautionary statements**

P201 Obtain special instructions before use.

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P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P501	Dispose of waste according to applicable legislation

**Special labelling of certain mixtures**

EUH066 Repeated exposure may cause skin dryness or cracking.

**2.3. Other hazards**

No information available.

**SECTION 3: Composition/information on ingredients****3.2. Mixtures****Hazardous components**

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification according to Regulation (EC) No. 1272/2008 [CLP]			
64741-67-9	Heavy Fuel oil, Residues (petroleum), catalytic reformer fractionator			60 - < 65 %
	265-069-3	649-048-00-X	01-2119488737-18	
	Carc. 1A, Repr. 2, Acute Tox. 4, STOT RE 2, Aquatic Acute 1 (M-Factor = 1), Aquatic Chronic 1; H350 H361d H332 H373 H400 H410 EUH066			
51287-84-4	Bis(dodecylthio)dimethylstannane			< 1 %
	257-111-4			
	Repr. 2, STOT RE 1, Aquatic Chronic 4; H361d H372 H413			

Full text of H and EUH statements: see section 16.

**Further Information**

This mixture contains the following substances of very high concern (SVHC) which are included in the Candidate List according to Article 59 of REACH: none

**SECTION 4: First aid measures****4.1. Description of first aid measures****After inhalation**

Provide fresh air. Where appropriate artificial ventilation. Medical treatment necessary.

**After contact with skin**

Gently wash with plenty of soap and water. Immediately remove any contaminated clothing, shoes or stockings. Medical treatment necessary.

**After contact with eyes**

After eye contact: Rinse immediately carefully and thoroughly with eye-bath or water. Consult an ophthalmologist.

**After ingestion**

Rinse mouth immediately and drink plenty of water. Induce vomiting when the affected person is not unconscious. Medical treatment necessary.

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

No information available.

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

Treat symptomatically.

**SECTION 5: Firefighting measures**

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**5.1. Extinguishing media****Suitable extinguishing media**Water spray jet, BC-powder, Carbon dioxide (CO<sub>2</sub>), Foam.**5.2. Special hazards arising from the substance or mixture**

Non-flammable.

In case of fire may be liberated: Hydrogen cyanide (hydrocyanic acid), Nitrogen oxides (NO<sub>x</sub>), Carbon dioxide (CO<sub>2</sub>), Carbon monoxide.**5.3. Advice for firefighters**

Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit.

**Additional information**

Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment. Evacuate area.

**6.2. Environmental precautions**

Do not allow to enter into surface water or drains.

**6.3. Methods and material for containment and cleaning up**

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

**6.4. Reference to other sections**

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

**SECTION 7: Handling and storage****7.1. Precautions for safe handling****Advice on safe handling**

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes.

**Advice on protection against fire and explosion**

No special fire protection measures are necessary.

**7.2. Conditions for safe storage, including any incompatibilities****Requirements for storage rooms and vessels**

Keep container tightly closed. Keep locked up. Store in a place accessible by authorized persons only. Provide adequate ventilation as well as local exhaustion at critical locations.

**Advice on storage compatibility**

No special measures are necessary.

**Further information on storage conditions**

storage temperature: 20 - 38 °C

**7.3. Specific end use(s)**

Polyurethane castable elastomer component A for tyrefilling.

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters**

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#### Additional advice on limit values

No information available.

#### 8.2. Exposure controls



#### Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

#### Protective and hygiene measures

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink.

#### Eye/face protection

Wear eye protection/face protection.

#### Hand protection

rubber gloves.

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

#### Skin protection

Wear suitable protective clothing.

#### Respiratory protection

 In case of inadequate ventilation wear respiratory protection.  
 Filtering device (full mask or mouthpiece) with filter: P-3, white

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state:	liquid
Colour:	brown
Odour:	characteristic

	<b>Test method</b>
pH-Value:	not determined

#### Changes in the physical state

Melting point:	not determined
Initial boiling point and boiling range:	> 276 °C

Flash point:	149 °C ASTM D 92
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#### Flammability

Solid:	not applicable
Gas:	not applicable

#### Explosive properties

No information available.

Lower explosion limits:	not determined
Upper explosion limits:	not determined

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**Auto-ignition temperature**

Solid: not applicable

Gas: not applicable

Decomposition temperature: not determined

**Oxidizing properties**

Not oxidising.

Vapour pressure: 0 hPa  
(at 20 °C)Density: 1,0 - 1,02 g/cm<sup>3</sup>Water solubility: The study does not need to be conducted  
because the substance is known to be  
insoluble in water**Solubility in other solvents**

not determined

Partition coefficient: not determined

Vapour density: not determined

Evaporation rate: not determined

Solvent content: Solvent: 40 - 50 %  
water: < 1 %**9.2. Other information**

Odour threshold: not determined

**SECTION 10: Stability and reactivity****10.1. Reactivity**

No hazardous reaction when handled and stored according to provisions.

**10.2. Chemical stability**

The product is stable under storage at normal ambient temperatures.

**10.3. Possibility of hazardous reactions**

No known hazardous reactions.

**10.4. Conditions to avoid**

none

**10.5. Incompatible materials**

Isocyanates

**10.6. Hazardous decomposition products**Thermal decomposition: Nitrogen oxides (NO<sub>x</sub>), Carbon dioxide (CO<sub>2</sub>), Carbon monoxide**SECTION 11: Toxicological information****11.1. Information on toxicological effects****Acute toxicity**

Harmful if inhaled.

**ATEmix calculated**

ATE (inhalative vapour) 17,59 mg/l

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CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
64741-67-9	Heavy Fuel oil, Residues (petroleum), catalytic reformer fractionator				
	oral	LD50 > 5000 mg/kg	Rat	Manufacturer	
	dermal	LD50 > 2000 mg/kg	Rat	Manufacturer	
	inhalative vapour	ATE 11 mg/l			
	inhalative (4 h) aerosol	LC50 4,1 mg/l	Rat	Manufacturer	
51287-84-4	Bis(dodecylthio)dimethylstannane				
	oral	LD50 12360 mg/kg	Rat	Manufacturer	
	dermal	LD50 5150 mg/kg	Rabbit	Manufacturer	

**Irritation and corrosivity**

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

**Sensitising effects**

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

**Carcinogenic/mutagenic/toxic effects for reproduction**

May cause cancer. (Heavy Fuel oil, Residues (petroleum), catalytic reformer fractionator)

Suspected of damaging the unborn child. (Heavy Fuel oil, Residues (petroleum), catalytic reformer fractionator; Bis(dodecylthio)dimethylstannane)

Germ cell mutagenicity: 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**

Repeated exposure may cause skin dryness or cracking.

May cause damage to organs through prolonged or repeated exposure. (Heavy Fuel oil, Residues (petroleum), catalytic reformer fractionator)

**Aspiration hazard**

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

**Additional information on tests**

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP]. Special hazards arising from the substance or mixture!

**SECTION 12: Ecological information**
**12.1. Toxicity**

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

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
64741-67-9	Heavy Fuel oil, Residues (petroleum), catalytic reformer fractionator					
	Acute fish toxicity	LC50 79 mg/l	96 h	Oncorhynchus mykiss (Rainbow trout)	Manufacturer	
	Acute algae toxicity	ErC50 0,75 mg/l	72 h	Selenastrum capricornutum	Manufacturer	
	Acute crustacea toxicity	EC50 2 mg/l	48 h	Daphnia magna (Big water flea)	Manufacturer	

**12.2. Persistence and degradability**

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The product has not been tested.

#### **12.3. Bioaccumulative potential**

The product has not been tested.

#### **12.4. Mobility in soil**

The product has not been tested.

#### **12.5. Results of PBT and vPvB assessment**

The product has not been tested.

#### **12.6. Other adverse effects**

No information available.

#### **Further information**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

### SECTION 13: Disposal considerations

#### **13.1. Waste treatment methods**

##### **Advice on disposal**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation.

##### **Contaminated packaging**

This material and its container must be disposed of as hazardous waste. Handle contaminated packages in the same way as the substance itself.

### SECTION 14: Transport information

#### **Land transport (ADR/RID)**

##### **14.1. UN number:**

UN 3082

##### **14.2. UN proper shipping name:**

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Heavy Fuel oil, Residues (petroleum), catalytic reformer fractionator)

##### **14.3. Transport hazard class(es):**

9

##### **14.4. Packing group:**

III

Hazard label:

9



Classification code:

M6

Special Provisions:

274 335 375 601

Limited quantity:

5 L

Excepted quantity:

E1

Transport category:

3

Hazard No:

90

Tunnel restriction code:

E

#### **Inland waterways transport (ADN)**

##### **14.1. UN number:**

UN 3082

##### **14.2. UN proper shipping name:**

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Heavy Fuel oil, Residues (petroleum), catalytic reformer fractionator)

##### **14.3. Transport hazard class(es):**

9

##### **14.4. Packing group:**

III

Hazard label:

9

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Classification code: M6  
 Special Provisions: 274 335 375 601  
 Limited quantity: 5 L  
 Excepted quantity: E1

**Marine transport (IMDG)**

**14.1. UN number:** UN 3082  
**14.2. UN proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Heavy Fuel oil, Residues (petroleum), catalytic reformer fractionator)  
**14.3. Transport hazard class(es):** 9  
**14.4. Packing group:** III  
 Hazard label: 9



Special Provisions: 274, 335, 969  
 Limited quantity: 5 L  
 Excepted quantity: E1  
 EmS: F-A, S-F

**Air transport (ICAO-TI/IATA-DGR)**

**14.1. UN number:** UN 3082  
**14.2. UN proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Heavy Fuel oil, Residues (petroleum), catalytic reformer fractionator)  
**14.3. Transport hazard class(es):** 9  
**14.4. Packing group:** III  
 Hazard label: 9



Special Provisions: A97 A158 A197  
 Limited quantity Passenger: 30 kg G  
 Passenger LQ: Y964  
 Excepted quantity: E1  
 IATA-packing instructions - Passenger: 964  
 IATA-max. quantity - Passenger: 450 L  
 IATA-packing instructions - Cargo: 964  
 IATA-max. quantity - Cargo: 450 L

**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: yes



Danger releasing substance: Heavy Fuel oil, Residues (petroleum), catalytic reformer fractionator

**14.6. Special precautions for user**

No information available.

**14.7. Transport in bulk according to Annex II of Marpol and the IBC Code**

not applicable



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**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulatory information**

Restrictions on use (REACH, annex XVII):

Entry 20: Bis(dodecylthio)dimethylstannane

Entry 28: Heavy Fuel oil, Residues (petroleum), catalytic reformer fractionator

Information according to 2012/18/EU E1 Hazardous to the Aquatic Environment (SEVESO III):

**Additional information**

This mixture contains the following substances of very high concern (SVHC) which are included in the Candidate List according to Article 59 of REACH: none

**National regulatory information**

Employment restrictions:

Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

Water contaminating class (D):

3 - highly water contaminating

**15.2. Chemical safety assessment**For the following substances of this mixture a chemical safety assessment has been carried out:  
Heavy Fuel oil, Residues (petroleum), catalytic reformer fractionator**SECTION 16: Other information****Changes**

This data sheet contains changes from the previous version in section(s): 3,15.

**Abbreviations and acronyms**ADR: Accord européen sur le transport des marchandises dangereuses par Route  
(European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service

LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

**Relevant H and EUH statements (number and full text)**

H332	Harmful if inhaled.
H350	May cause cancer.
H361d	Suspected of damaging the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.
EUH066	Repeated exposure may cause skin dryness or cracking.

**Further Information**

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be

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transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*