



Safety Data Sheet

according to Regulation (EC) No 1907/2006

TyrFil Flex^{MDI} CAT

Print date: 14.03.2016

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

1.1. Product identifier

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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:	Accella Tyre Fill Systems GmbH	
Street:	Bünnerhelfstr. 19	
Place:	D-44379 Dortmund	
Telephone:	+49 (0)231 53467981	Telefax: +49 (0)231 534 679 - 115
e-mail:	trohde@accella-tyrefill.com	

1.4. Emergency telephone number:

+1 (703) 527 - 38 87

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No. 1272/2008

Hazard categories:

Skin corrosion/irritation: Skin Irrit. 2

Serious eye damage/eye irritation: Eye Irrit. 2

Carcinogenicity: Carc. 1B

Reproductive toxicity: Repr. 2

Specific target organ toxicity - repeated exposure: STOT RE 1

Hazardous to the aquatic environment: Aquatic Chronic 2

Hazard Statements:

Causes serious eye irritation.

Causes skin irritation.

May cause cancer.

Suspected of damaging the unborn child.

Causes damage to organs through prolonged or repeated exposure.

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 residue distn.

Extracts (petroleum), light paraffinic distillate solvent

Extracts (petroleum), light paraffinic distillate solvent

Signal word: Danger

Pictograms:



Hazard statements

H319	Causes serious eye irritation.
H315	Causes skin irritation.
H350	May cause cancer.
H361d	Suspected of damaging the unborn child.



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H372 Causes damage to organs through prolonged or repeated exposure.
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

P201 Obtain special instructions before use.
P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313 IF exposed or concerned: Get medical advice/attention.

Special labelling of certain mixtures

Restricted to professional users.

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]			
68478-13-7	Heavy Fuel oil, Residues (petroleum), catalytic reformer fractionator residue distr.			10 - < 25 %
	270-792-2	649-025-00-4		
	Carc. 1B, Aquatic Chronic 2; H350 H411			
64742-05-8	Extracts (petroleum), light paraffinic distillate solvent			10 - < 25 %
	265-104-2	649-003-00-4		
	Carc. 1B, Repr. 2, STOT RE 1, Aquatic Chronic 2; H350 H361d H372 H411 EUH066			
64742-05-8	Extracts (petroleum), light paraffinic distillate solvent			5 - < 10 %
	265-104-2	649-003-00-4		
	Carc. 1B, Repr. 2, STOT RE 1, Aquatic Chronic 3; H350 H361d H372 H412 EUH066			
107-21-1	ethanediol, ethylene glycol			1 - < 2.5 %
	203-473-3	603-027-00-1		
	Acute Tox. 4; H302			
109-83-1	2-(methylamino)ethanol, 2-methylaminoethanol, N-methyl-2-amino ethanol, N-methyl-2-ethanolamine, N-methylethanolamine			1 - < 2.5 %
	203-710-0	603-080-00-0		
	Acute Tox. 4, Acute Tox. 4, Skin Corr. 1B; H312 H302 H314			

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

SECTION 4: First aid measures

4.1. Description of first aid measures

After inhalation

Provide fresh air. Medical treatment necessary.

After contact with skin

After contact with skin, wash immediately with polyethylene glycol, followed by plenty of water. Take off immediately all contaminated clothing and wash it before reuse. Medical treatment necessary.



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After contact with eyes

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

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

5.1. Extinguishing media

Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings.

5.2. Special hazards arising from the substance or mixture

Non-flammable.

In case of fire: Formation of: Nitrogen oxides (NO_x), Sulphur dioxide (SO₂), Carbon dioxide (CO₂), 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.

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.

Advice on protection against fire and explosion

No special fire protection measures are necessary.

7.2. Conditions for safe storage, including any incompatibilities



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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.
storage temperature: 20°C

Advice on storage compatibility

Keep away from: Oxidising agent, strong

7.3. Specific end use(s)

Polyurethane castable elastomer component A for tyrefilling.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m ³	fibres/ml	Category	Origin
107-21-1	Ethane-1,2-diol, vapour	20	52		TWA (8 h)	WEL
		40	104		STEL (15 min)	WEL
7783-06-4	Hydrogen sulphide	5	7		TWA (8 h)	WEL
		10	14		STEL (15 min)	WEL

DNEL/DMEL values

CAS No	Substance	Exposure route	Effect	Value
64742-05-8	Extracts (petroleum), light paraffinic distillate solvent			
Worker DNEL, long-term		dermal	systemic	1 mg/kg bw/day

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

Suitable eye protection: goggles.

Hand protection

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.

Suitable material:

NBR (Nitrile rubber), e.g. type Tricotril, article nr. 736 from KCL (www.kcl.de).

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CR (polychloroprene, chloroprene rubber), e.g. Camapren, article nr. 720 from KCL (www.kcl.de).

Skin protection

Wear suitable protective clothing.

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	liquid	
Colour:	brown	
Odour:	like: Mineral oil	
		Test method
pH-Value:		neutral
Changes in the physical state		
Melting point:		-25 °C
Initial boiling point and boiling range:		not determined
Flash point:		> 150 °C
Flammability		
Solid:		not applicable
Gas:		not applicable
Explosive properties		
No information available.		
Lower explosion limits:		not determined
Upper explosion limits:		not determined
Ignition temperature:		> 240 °C
Auto-ignition temperature		
Solid:		not applicable
Gas:		not applicable
Decomposition temperature:		not determined
Oxidizing properties		
Not oxidizing.		
Vapour pressure:		not determined
Density:		1,02 - 1,05 g/cm ³
Water solubility:		emulsifiable
Solubility in other solvents		
Soluble in: Ketone; Alcohol; Hydrocarbons, aliphatic		
Partition coefficient:		not determined
Viscosity / dynamic: (at 20 °C)		450 - 700 mPa·s
Vapour density:		not determined
Evaporation rate:		not determined
Solvent content:		25-29 %, water: <1 %

9.2. Other information

No information available.



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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

Danger of polymerisation

10.4. Conditions to avoid

Keep away from heat.

10.5. Incompatible materials

Keep away from: Oxidising agent, Acid.

10.6. Hazardous decomposition products

No known hazardous decomposition products.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

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

CAS No	Chemical name				
	Exposure routes	Method	Dose	Species	Source
64742-05-8	Extracts (petroleum), light paraffinic distillate solvent				
	oral	LD50	> 5000 mg/kg	Rat	Manufacturer
	dermal	LD50	> 3000 mg/kg	Rabbit	Manufacturer
	inhalative (4 h) aerosol	LC50	> 5 mg/l	Rat	Manufacturer
64742-05-8	Extracts (petroleum), light paraffinic distillate solvent				
	oral	LD50	> 5000 mg/kg	Rat	OECD 401
	dermal	LD50	> 3000 mg/kg	Rabbit	OECD 402
	inhalative (4 h) aerosol	LC50	> 5 mg/l	Rat	OECD 403
107-21-1	ethanediol, ethylene glycol				
	oral	ATE	500 mg/kg		
	dermal	LD50	10600 mg/kg	Rabbit	GESTIS
109-83-1	2-(methylamino)ethanol, 2-methylaminoethanol, N-methyl-2-amino ethanol, N-methyl-2-ethanolamine, N-methylethanolamine				
	oral	LD50	1391 mg/kg	Rat	OECD 401
	dermal	LD50	1006 mg/kg	Rabbit	OECD 402

Irritation and corrosivity

Causes serious eye irritation.

Causes skin irritation.

Sensitising effects

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

STOT-single exposure

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



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Severe effects after repeated or prolonged exposure

Causes damage to organs through prolonged or repeated exposure. (Extracts (petroleum), light paraffinic distillate solvent), (Extracts (petroleum), light paraffinic distillate solvent)

Carcinogenic/mutagenic/toxic effects for reproduction

May cause cancer. (Heavy Fuel oil, Residues (petroleum), catalytic reformer fractionator residue distn.), (Extracts (petroleum), light paraffinic distillate solvent), (Extracts (petroleum), light paraffinic distillate solvent)

Suspected of damaging the unborn child. (Extracts (petroleum), light paraffinic distillate solvent), (Extracts (petroleum), light paraffinic distillate solvent)

Aspiration hazard

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

Additional information on tests

This 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

Toxic to aquatic life with long lasting effects.

CAS No	Chemical name					
	Aquatic toxicity	Method	Dose	[h] [d]	Species	Source
64742-05-8	Extracts (petroleum), light paraffinic distillate solvent					
	Acute fish toxicity	LC50	> 1000 mg/l	96 h	Oncorhynchus mykiss (Rainbow trout)	Manufacturer
	Acute algae toxicity	ErC50	18,8 mg/l	72 h	Selenastrum capricornutum	Manufacturer
	Acute crustacea toxicity	EC50	35,9 mg/l	48 h	Daphnia magna (Big water flea)	Manufacturer
64742-05-8	Extracts (petroleum), light paraffinic distillate solvent					
	Acute fish toxicity	LC50	> 1000 mg/l	96 h	Oncorhynchus mykiss (Rainbow trout)	OECD 203
	Acute algae toxicity	ErC50	18,8 mg/l	72 h	Selenastrum capricornutum	OECD 201
	Acute crustacea toxicity	EC50	35,9 mg/l	48 h	Daphnia magna (Big water flea)	OECD 202
107-21-1	ethanediol, ethylene glycol					
	Acute fish toxicity	LC50	72860 mg/l	96 h	Pimephales promelas (fathead minnow)	EPA 600/4-90/027
	Acute algae toxicity	ErC50	6500 mg/l	96 h	Scenedesmus quadricauda	IUCLID
	Acute crustacea toxicity	EC50	> 100 mg/l	48 h	Daphnia magna (Big water flea)	OECD 202
109-83-1	2-(methylamino)ethanol, 2-methylaminoethanol, N-methyl-2-amino ethanol, N-methyl-2-ethanolamine, N-methylethanolamine					
	Acute fish toxicity	LC50	> 100 mg/l	96 h	Brachydanio rerio (zebra-fish)	IUCLID
	Acute algae toxicity	ErC50	28.,1 mg/l	72 h	Desmodesmus subspicatus.	OECD 203
	Acute crustacea toxicity	EC50	33 mg/l	48 h	Daphnia magna (Big water flea)	OECD 202

12.2. Persistence and degradability

The product has not been tested.



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CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
64742-05-8	Extracts (petroleum), light paraffinic distillate solvent			
	EU Method C.4-E	0	28	ECHA
	Poorly biodegradable.			
64742-05-8	Extracts (petroleum), light paraffinic distillate solvent			
	OECD 301D/ EEC 92/69/V, C.4-E	0%	28	
	Not readily biodegradable (according to OECD criteria)			
107-21-1	ethanediol, ethylene glycol			
	OECD 301A/ ISO 7827/ EEC 92/69/V, C.4-A	90 - 100 %	10	IUCLID
	Readily biodegradable (according to OECD criteria).			
109-83-1	2-(methylamino)ethanol, 2-methylaminoethanol, N-methyl-2-amino ethanol, N-methyl-2-ethanolamine, N-methylethanolamine			
	OECD 301A/ ISO 7827/ EEC 92/69/V, C.4-A	92 %	21	IUCLID
	Readily biodegradable (according to OECD criteria).			

12.3. Bioaccumulative potential

The product has not been tested.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
64742-05-8	Extracts (petroleum), light paraffinic distillate solvent	> = 4
107-21-1	ethanediol, ethylene glycol	-1,36
109-83-1	2-(methylamino)ethanol, 2-methylaminoethanol, N-methyl-2-amino ethanol, N-methyl-2-ethanolamine, N-methylethanolamine	-0,94

BCF

CAS No	Chemical name	BCF	Species	Source
109-83-1	2-(methylamino)ethanol, 2-methylaminoethanol, N-methyl-2-amino ethanol, N-methyl-2-ethanolamine, N-methylethanolamine	3,162	Quantitative structure-activity relationship (QSAR)	IUCLID

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.

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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.
 (Extracts (petroleum), light paraffinic distillate solvent)
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.
 (Extracts (petroleum), light paraffinic distillate solvent)
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

Marine transport (IMDG)

14.1. UN number: UN 3082
14.2. UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
 (Extracts (petroleum), light paraffinic distillate solvent)
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)




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14.1. UN number:	UN 3082
14.2. UN proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Extracts (petroleum), light paraffinic distillate solvent)
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



14.6. Special precautions for user

No information available.

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

EU regulatory information

2004/42/EC (VOC): > 25,90 % (> 264,90 g/l)

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

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Changes

This data sheet contains changes from the previous version in section(s): 2,7,9,12,13,14,15.

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



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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)

H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H350	May cause cancer.
H361d	Suspected of damaging the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
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 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.)