

according to Regulation (EC) No 1907/2006

184 Particle Filter System Ingredient Premium

Print date: 22.06.2016

Product code: MP18400100AV

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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

Additive

1.3. Details of the supplier of the safety data sheet

Company name:	TUNAP Deutschland Vertriebs GmbH & C	o. Betriebs KG
Street:	Bürgermeister-Seidl-Str. 2	
Place:	D-82515 Wolfratshausen	
Telephone:	+49 (0) 8171/1600 - 0	Telefax: +49 (0) 8171/1600 - 40
e-mail:	sdb@tunap.com	
Internet:	www.tunap.com	
1.4. Emergency telephone	+49 (0) 30 30 686 790 (Giftnotruf Berlin)	

number:

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Indications of danger: Xn - Harmful, N - Dangerous for the environment

R phrases: Risk of explosion if heated under confinement. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Harmful: may cause lung damage if swallowed. Repeated exposure may cause skin dryness or cracking.

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Hazard categories: Serious eye damage/eye irritation: Eye Irrit. 2 Aspiration hazard: Asp. Tox. 1 Hazardous to the aquatic environment: Aquatic Chronic 2 Hazard Statements: May be fatal if swallowed and enters airways. Causes serious eye irritation. Toxic to aquatic life with long lasting effects.

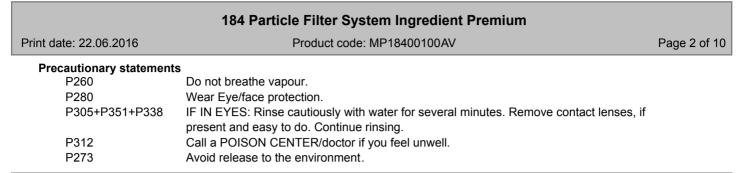
2.2. Label elements

Hazard components for labelling

Hydrocarbons, C10 - C13, n-alkanes, iso-alkanes, cyclics, < 2 % aromates Hydrocarbons, C11-C13, isoalkanes, < 2% aromatics

Signal word:	Danger
Pictograms:	GHS07-GHS08-GHS09
Hazard statements	
H304	May be fatal if swallowed and enters airways.
H319	Causes serious eye irritation.
H411	Toxic to aquatic life with long lasting effects.





SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous components

EC No	Chemical name	Quantity
CAS No	Classification according to Directive 67/548/EEC	
Index No	Classification according to Regulation (EC) No. 1272/2008 [CLP]	
REACH No		
918-481-9	Hydrocarbons, C10 - C13, n-alkanes, iso-alkanes, cyclics, < 2 % aromates	50 - < 100 %
64742-48-9	Xn - Harmful R65-66	
	Asp. Tox. 1; H304 EUH066	
01-2119457273-39		
248-363-6	2-Ethylhexyl nitrate	10 - < 20 %
27247-96-7	Xn - Harmful, N - Dangerous for the environment R20/21/22-44-51-53-66	
	Acute Tox. 4, Acute Tox. 4, Acute Tox. 4, Aquatic Chronic 2; H302 H312 H332 H411 EUH044 EUH066	
	Organometallic iron compounds	1 - < 3 %
	Xn - Harmful R48/22-53	
	STOT RE 2, Aquatic Chronic 4; H373 H413	
907-745-9	Reaction mass of 2,6-di-tert-butylphenol and 2,4,6-tri-tert-butylphenol	1 - < 3 %
	Xi - Irritant, N - Dangerous for the environment R41-50-53	
	Eye Dam. 1, Aquatic Acute 1 (M-Factor = 1), Aquatic Chronic 1; H318 H400 H410	
01-2119538013-5		

Full text of R, H and EUH phrases: see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

After inhalation

Provide fresh air.

After contact with skin

Wash with plenty of water. Change contaminated clothing.

After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water. In case of troubles or persistent symptoms, consult an ophthalmologist.

After ingestion

Rinse mouth immediately and drink plenty of water.

Caution if victim vomits: Risk of aspiration!

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

Headache, nausea, dizziness, fatigue, skin irritation

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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.

Unsuitable extinguishing media

High power water jet.

5.2. Special hazards arising from the substance or mixture

The product itself does not burn. Vapours may form explosive mixtures with air. Heating causes rise in pressure with risk of bursting.

5.3. Advice for firefighters

Use appropriate respiratory protection.

Additional information

Use water spray jet to protect personnel and to cool endangered containers. 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. Wear 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

See section 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Do not breathe gas/fumes/vapour/spray.

Advice on protection against fire and explosion

Heating causes rise in pressure with risk of bursting.

Further information on handling

Avoid contact with skin and eyes.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed.

Advice on storage compatibility

No special measures are necessary.

7.3. Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection



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8.1. Control parameters

Additional advice on limit values

a no restriction b End of exposure or shift c in long-term exposure: after several shifts d prior to next shift

STEL (EC) : Short Term Exposure Limit TWA (EC): time-weighted average U: Urea B: Blood

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

Protect skin by using skin protective cream. After work, wash hands and face. When using do not eat or drink.

Eye/face protection

Suitable eye protection: Tightly sealed safety glasses.

DIN EN 166

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. Suitable material: NBR (Nitrile rubber) Breakthrough time (maximum wearing time) 480min Thickness of the glove material 0,45 mm DIN EN 374

Skin protection

Wear suitable protective clothing.

Respiratory protection

Wear breathing apparatus if exposed to vapours/dusts/aerosols. Suitable respiratory protective equipment: Combination filter device (DIN EN 141).. Filtering device with filter or ventilator filtering device of type: A

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

ľ	I. Information on basic physical and cher	mical properties		
	Physical state:	liquid		
	Colour:	dark brown		
	Odour:	amines.		
				Test method
	pH-Value:		not applicable	
	Changes in the physical state			
	Melting point:		No information available.	
	Initial boiling point and boiling range:		100 °C	
	Sublimation point:		No information available.	
	Softening point:		No information available.	
	:		No information available.	

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SECTION 10: Stability and reactivity

10.1. Reactivity

No information available.

10.2. Chemical stability

The product is stable under normal conditions.

10.3. Possibility of hazardous reactions

No information available.

10.4. Conditions to avoid

Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Take precautionary measures against static discharges.

10.5. Incompatible materials

Reacts with : Oxidizing agents.

10.6. Hazardous decomposition products

No information available.

Further information

Do not mix with other chemicals.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicocinetics, metabolism and distribution

No information available.

Acute toxicity

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



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Acute toxicity

CAS No	Chemical name							
	Exposure route	Method	Dose	Species	Source			
64742-48-9	Hydrocarbons, C10 - C13, n-al	Hydrocarbons, C10 - C13, n-alkanes, iso-alkanes, cyclics, < 2 % aromates						
	oral	LD50 mg/kg	>8000	Rat				
	dermal	LD50 mg/kg	>3160	Rabbit				
	inhalative (4 h) vapour	LC50	4951 mg/l	Rat				
27247-96-7	2-Ethylhexyl nitrate							
	oral	LD50 mg/kg	>9640	Rat				
	dermal	LD50 mg/kg	>4820	Rabbit				
	inhalative (4 h) vapour	LC50	11 mg/l	Rat				
	inhalative aerosol	ATE	1,5 mg/l					
	Organometallic iron compounds							
	oral	LD50	1320 mg/kg					
	dermal	LD50 mg/kg	>2000					
	Reaction mass of 2,6-di-tert-butylphenol and 2,4,6-tri-tert-butylphenol							
	oral	LD50	2976 mg/kg	Rat				
	dermal	LD50 mg/kg	> 2000	Rat				

Irritation and corrosivity

Causes serious eye irritation.

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Caution if victim vomits: Risk of aspiration!

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.

Severe effects after repeated or prolonged exposure

Based on available data, the classification criteria are not met. Has degreasing effect on the skin. Frequently or prolonged contact with skin may cause dermal irritation.

Carcinogenic/mutagenic/toxic effects for reproduction

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

No indications of human carcinogenicity exist.

No indications of human germ cell mutagenicity exist.

No indications of human reproductive toxicity exist.

Aspiration hazard

May be fatal if swallowed and enters airways.

Specific effects in experiment on an animal

No information available.

SECTION 12: Ecological information



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12.1. Toxicity

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

CAS No	Chemical name							
	Aquatic toxicity	Method	Dose	[h] [d]	Species	Source		
64742-48-9	Hydrocarbons, C10 - C13, n-alkanes, iso-alkanes, cyclics, < 2 % aromates							
	Acute fish toxicity	LC50	>1000 mg/l	96 h	Oncorhynchus mykiss (Rainbow trout)			
	Acute algae toxicity	ErC50	>1000 mg/l	96 h	Scenedesmus subspicatus			
	Acute crustacea toxicity	EC50	>1000 mg/l	48 h	Daphnia magna			
27247-96-7	2-Ethylhexyl nitrate							
	Acute fish toxicity	LC50	2 mg/l	96 h	Brachydanio rerio (zebra-fish)			
	Acute algae toxicity	ErC50 mg/l	>1 - <10	72 h	Algae toxicity			
	Acute crustacea toxicity	EC50	<10 mg/l	48 h	Daphnia magna			
	Organometallic iron compounds							
	Acute fish toxicity	LC50	>100 mg/l	96 h	Pimephales promelas (fathead minnow)			
	Acute algae toxicity	ErC50	>100 mg/l	96 h	Scenedesmus subspicatus			
	Acute crustacea toxicity	EC50	>100 mg/l		Daphnia magna (Big water flea)			
	Reaction mass of 2,6-di-tert-butylphenol and 2,4,6-tri-tert-butylphenol							
	Acute fish toxicity	LC50	0,3 mg/l	96 h	Oncorhynchus mykiss (Rainbow trout)			
	Acute algae toxicity	ErC50	4,9 mg/l	72 h	Pseudokirchneriella subcapitata			
	Acute crustacea toxicity	EC50	0,4 mg/l	48 h	Daphnia magna			

12.2. Persistence and degradability

There are no data available on the mixture itself. AOX (mg/l): 0

12.3. Bioaccumulative potential

There are no data available on the mixture itself.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
27247-96-7	2-Ethylhexyl nitrate	3,74 - 5,24

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

This substance does not meet the criteria for classification as PBT or vPvB.

12.6. Other adverse effects

No information available.

Further information

Do not allow to enter into surface water or drains.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal

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



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Waste disposal number of waste from residues/unused products

070704 WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the MFSU of fine chemicals and chemical products not otherwise specified; other organic solvents, washing liquids and mother liquors Classified as hazardous waste.

Waste disposal number of used product

070704 WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the MFSU of fine chemicals and chemical products not otherwise specified; other organic solvents, washing liquids and mother liquors Classified as hazardous waste.

Waste disposal number of contaminated packaging

150104 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); metallic packaging

Contaminated packaging

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

Land transport (ADR/RID)

<u>14.1. UN number:</u>	UN3082
14.2. UN proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Hydrocarbons, C10 - C13, n-alkanes, iso-alkanes, cyclics, < 2 % aromates)
14.3. Transport hazard class(es):	9
14.4. Packing group:	III
Hazard label:	9
Classification code:	M6
Special Provisions:	274 335 601
Limited quantity:	5 L
Transport category:	3
Hazard No:	90
Tunnel restriction code:	E
Other applicable information (land tran Limited quantity: E1	isport)
Inland waterways transport (ADN)	
<u>14.1. UN number:</u>	UN3082
14.2. UN proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Hydrocarbons, C10 - C13, n-alkanes, iso-alkanes, cyclics, < 2 % aromates)
14.3. Transport hazard class(es):	9
14.4. Packing group:	III
Hazard label:	9
Classification code:	M6
Special Provisions:	274 335 601
Limited quantity:	5 L
Other applicable information (inland wa Limited quantity: E1	aterways transport)
Marine transport (IMDG)	
<u>14.1. UN number:</u>	UN3082



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14.2. UN proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (H carbons, C10-c13, n-alkane, isoalkane, cyclene, < 2% aromates)	ydro
14.3. Transport hazard class(es):	9	
14.4. Packing group:	III	
Hazard label:	9	
Marine pollutant:	Yes	
Special Provisions: Limited quantity:	274, 335 5 L	
EmS:	F-A, S-F	
Other applicable information (marine tr Limited quantity: E1	ansport)	
Air transport (ICAO)		
<u>14.1. UN number:</u>	UN3082	
14.2. UN proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (H carbons, C10-c13, n-alkane, isoalkane, cyclene, < 2% aromates)	ydro
14.3. Transport hazard class(es):	9	
14.4. Packing group:	III	
Hazard label:	9	
Special Provisions:	A97 A158	
Limited quantity Passenger: IATA-packing instructions - Passenger:	30 kg G 964	
IATA-packing instructions - Passenger:	904 450 L	
IATA-packing instructions - Cargo:	964	
IATA-max. quantity - Cargo:	450 L	
Other applicable information (air transp Limited quantity: E1 Passenger-LQ: Y964	port)	
14.5. Environmental hazards		
ENVIRONMENTALLY HAZARDOUS:	yes	
Danger releasing substance:	Hydrocarbons, C10 - C13, n-alkanes, iso-alkanes, cyclics, < 2 % aroma	ates
SECTION 15: Regulatory information		
15.1. Safety, health and environmental reg	ulations/legislation specific for the substance or mixture	
EU regulatory information		
1999/13/EC (VOC):	VOC-CH: 0,0704 kg/100ml (86,4 % w/w)	
	VOC 1999/13/EG: 98,4 % w/w	
Additional information		
	g to Regulation (EC) No. 1907/2006 (REACH)	
National regulatory information		
Water contaminating class (D):	2 - water contaminating	
SECTION 16: Other information		
Changes This data sheet contains cha	anges from the previous version in section(s): 1,2,14,15.	
Abbreviations and acronyms		
-	e transport des marchandises dangereuses par Route (European	
	nternational Carriage of Dangerous Goods by Road)	



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

for the new made-up material.