

**Safety Data Sheet**

according to UK REACH Regulation

**160S System-Wirkstoff Set**

Revision date: 16.07.2020

Product code: 1103458

Page 1 of 13

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

160S System-Wirkstoff Set

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

No information available.

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

Company name:	TUNAP GmbH & Co. KG	
Street:	Buergermeister-Seidl-Strasse 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 number:** 111 NHS (National Health Service)

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****GB CLP Regulation**

This mixture is not classified as hazardous in accordance with GB CLP Regulation.

**2.2. Label elements****2.3. Other hazards**

In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop.  
The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

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

**Safety Data Sheet**

according to UK REACH Regulation

**160S System-Wirkstoff Set**

Revision date: 16.07.2020

Product code: 1103458

Page 2 of 13

**Relevant ingredients**

CAS No	Chemical name	Quantity		
	EC No	Index No	REACH No	
	Classification (GB CLP Regulation)			
64742-82-1	Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25 %)			50 - < 100 %
	919-446-0		01-2119458049-33	
	Flam. Liq. 3, STOT SE 3, STOT RE 1, Asp. Tox. 1, Aquatic Chronic 2; H226 H336 H372 H304 H411 EUH066			
7491-09-0	potassium 1,2-bis(2-ethylhexyloxycarbonyl)ethanesulphonate			10 - < 20 %
	231-308-5		01-2119919740-39	
	Skin Irrit. 2, Eye Dam. 1; H315 H318			
64742-47-8	Distillates (petroleum), hydrotreated light, Kerosine - unspecified			3 - < 5 %
	265-149-8			
	Flam. Liq. 3, Asp. Tox. 1; H226 H304			
64742-82-1	Naphtha (petroleum), hydrodesulfurized heavy; Low boiling point hydrogen treated naphtha			3 - < 5 %
	265-185-4	649-330-00-2		
	Flam. Liq. 3, STOT SE 3, STOT RE 1, Asp. Tox. 1, Aquatic Chronic 2; H226 H336 H372 H304 H411 EUH066			
	Polyether amine, polymer			1 - < 3 %
	Skin Irrit. 2, Eye Irrit. 2, Aquatic Chronic 2; H315 H319 H411			
	Reaction mass of 2,6-di-tert-butylphenol and 2,4,6-tri-tert-butylphenol			1 - < 3 %
	907-745-9		01-2119538013-5	
	Eye Dam. 1, Aquatic Acute 1, Aquatic Chronic 1; H318 H400 H410			

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

**Specific Conc. Limits, M-factors and ATE**

CAS No	EC No	Chemical name	Quantity	
	Specific Conc. Limits, M-factors and ATE			
64742-82-1	919-446-0	Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25 %)	50 - < 100 %	
	inhalation: LC50 = 13100 mg/l (vapours); dermal: LD50 = 3400 mg/kg; oral: LD50 = > 15000 mg/kg			
7491-09-0	231-308-5	potassium 1,2-bis(2-ethylhexyloxycarbonyl)ethanesulphonate	10 - < 20 %	
	dermal: LD50 = > 10000 mg/kg; oral: LD50 = > 3000 mg/kg			
64742-47-8	265-149-8	Distillates (petroleum), hydrotreated light, Kerosine - unspecified	3 - < 5 %	
	inhalation: LC50 = > 20 mg/l (vapours); dermal: LD50 = >2000 mg/kg; oral: LD50 = >2000 mg/kg			
64742-82-1	265-185-4	Naphtha (petroleum), hydrodesulfurized heavy; Low boiling point hydrogen treated naphtha	3 - < 5 %	
	inhalation: LC50 = > 5000 mg/l (vapours); dermal: LD50 = > 2001 mg/kg; oral: LD50 = > 5000 mg/kg			
	907-745-9	Reaction mass of 2,6-di-tert-butylphenol and 2,4,6-tri-tert-butylphenol	1 - < 3 %	
	dermal: LD50 = > 2000 mg/kg; oral: LD50 = 2976 mg/kg			

**SECTION 4: First aid measures****4.1. Description of first aid measures****General information**

First aider: Pay attention to self-protection! Remove persons to safety. Never give anything by mouth to an unconscious person or a person with cramps.



## Safety Data Sheet

according to UK REACH Regulation

### 160S System-Wirkstoff Set

Revision date: 16.07.2020

Product code: 1103458

Page 3 of 13

#### After inhalation

Remove person to fresh air and keep comfortable for breathing. In all cases of doubt, or when symptoms persist, seek medical advice.

#### After contact with skin

Wash with plenty of water and soap. Take off immediately all contaminated clothing and wash it before reuse. In all cases of doubt, or when symptoms persist, seek medical advice.

#### After contact with eyes

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. In case of troubles or persistent symptoms, consult an ophthalmologist.

#### After ingestion

Do NOT induce vomiting. Observe risk of aspiration if vomiting occurs. Call a physician in any case!

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

Headache, nausea, dizziness, fatigue, skin irritation

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

Treat symptomatically. Call a POISON CENTER. Symptoms can occur only after several hours.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### Suitable extinguishing media

Water fog. Foam. Carbon dioxide (CO<sub>2</sub>). Extinguishing powder.

#### Unsuitable extinguishing media

Full water jet

### 5.2. Special hazards arising from the substance or mixture

Incomplete combustion and thermolysis gases of different toxicity can occur. In the case of hydrocarbonaceous products such as CO, CO<sub>2</sub>, aldehydes and soot. These can be very dangerous if they are inhaled in high concentrations or in enclosed spaces.

### 5.3. Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Move undamaged containers from immediate hazard area if it can be done safely. In case of fire: Wear self-contained breathing apparatus.

#### Additional information

Danger of bursting container.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

#### General advice

Wear breathing apparatus if exposed to vapours/dusts/aerosols. Remove all sources of ignition. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
Wear personal protection equipment.

#### For non-emergency personnel

First aider: Pay attention to self-protection!

#### For emergency responders

Fight fire with normal precautions from a reasonable distance.

### 6.2. Environmental precautions

Do not allow to enter into surface water or drains. Prevent spread over a wide area (e.g. by containment or oil barriers). Ensure all waste water is collected and treated via a waste water treatment plant.

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

#### For containment

Prevent spread over a wide area (e.g. by containment or oil barriers).

**Safety Data Sheet**

according to UK REACH Regulation

**160S System-Wirkstoff Set**

Revision date: 16.07.2020

Product code: 1103458

Page 4 of 13

**For cleaning up**

Clean contaminated articles and floor according to the environmental legislation.

**Other information**

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Clean contaminated articles and floor according to the environmental legislation.

**6.4. Reference to other sections**

See section 8.

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

Observe instructions for use.

Dust must be exhausted directly at the point of origin. Vapours/aerosols must be exhausted directly at the point of origin. If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means.

When using do not eat, drink, smoke, sniff.

Wear personal protection equipment (refer to section 8).

In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop.

**Advice on protection against fire and explosion**

Keep away from sources of ignition - No smoking. Heating causes rise in pressure with risk of bursting.

**Advice on general occupational hygiene**

Avoid exposure. Wear suitable protective clothing. Draw up and observe skin protection programme.

**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. Observe legal regulations and provisions.

**Hints on joint storage**

Do not store together with: Oxidizing agents. Pyrophoric or self-heating substances. Food and feedingstuffs.

**Further information on storage conditions**

Protect from frost. Protect from direct sunlight. Store in a cool dry place. Observe legal regulations and provisions.

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

No information available.

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

**Safety Data Sheet**

according to UK REACH Regulation

**160S System-Wirkstoff Set**

Revision date: 16.07.2020

Product code: 1103458

Page 5 of 13

**DNEL/DMEL values**

CAS No	Substance	Exposure route	Effect	Value
7491-09-0	potassium 1,2-bis(2-ethylhexyloxycarbonyl)ethanesulphonate			
Worker DNEL, long-term		inhalation	systemic	98,7 mg/m <sup>3</sup>
Worker DNEL, long-term		dermal	systemic	10 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	14,8 mg/m <sup>3</sup>
Consumer DNEL, long-term		dermal	systemic	5 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	5 mg/kg bw/day
	Reaction mass of 2,6-di-tert-butylphenol and 2,4,6-tri-tert-butylphenol			
Worker DNEL, long-term		inhalation	systemic	3,5 mg/m <sup>3</sup>
Worker DNEL, long-term		dermal	systemic	0,5 mg/kg bw/day

**PNEC values**

CAS No	Substance	Value
7491-09-0	potassium 1,2-bis(2-ethylhexyloxycarbonyl)ethanesulphonate	
Freshwater		0,007 mg/l
Freshwater (intermittent releases)		0,066 mg/l
Marine water		0,001 mg/l
Freshwater sediment		0,525 mg/kg
Marine sediment		0,052 mg/kg
Micro-organisms in sewage treatment plants (STP)		122 mg/l
Soil		0,101 mg/kg
	Reaction mass of 2,6-di-tert-butylphenol and 2,4,6-tri-tert-butylphenol	
Freshwater		0,0003 mg/l
Marine water		0,00003 mg/l
Freshwater sediment		0,09 mg/kg
Marine sediment		0,009 mg/kg
Secondary poisoning		8,33 mg/kg
Micro-organisms in sewage treatment plants (STP)		2,4 mg/l
Soil		0,044 mg/kg

**Additional advice on limit values**

- a no restriction
- b End of exposure or end of shift
- c at long-term exposure:
- d before next shift

- blood (B)
- Urine (U)

**8.2. Exposure controls****Appropriate engineering controls**

If handled uncovered, arrangements with local exhaust ventilation have to be used.

**Individual protection measures, such as personal protective equipment**

**Safety Data Sheet**

according to UK REACH Regulation

**160S System-Wirkstoff Set**

Revision date: 16.07.2020

Product code: 1103458

Page 6 of 13

**Eye/face protection**

Suitable eye protection: Tightly sealed safety glasses.  
EN 166

**Hand protection**

Protect skin by using skin protective cream. 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: 480min  
Thickness of the glove material 0,45 mm  
EN ISO 374

**Skin protection**

Wear suitable protective clothing. Take off immediately all contaminated clothing and wash it before reuse.

**Respiratory protection**

Wear breathing apparatus if exposed to vapours/dusts/aerosols.  
When exceeding the relevant workplace exposure limits, note the following:  
Suitable respiratory protective equipment: Combination filter device (DIN EN 141)..  
Filtering device with filter or ventilator filtering device of type:  
Observe the wear time limits as specified by the manufacturer.  
Observe legal regulations and provisions.

**Environmental exposure controls**

Observe legal regulations and provisions.

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

Physical state: Aerosol  
Colour:

pH-Value (at 20 °C):  
Density (at 20 °C):

**Test method**  
DIN 19268  
DIN 51757

**9.2. Other information**

Data apply to technical substance: Relative density, Colour, Odour, Viscosity, pH.

**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**

Do not expose to temperatures above 50 °C. Heating causes rise in pressure with risk of bursting.

**10.4. Conditions to avoid**

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Vapours can form explosive mixtures with air. Take precautionary measures against static discharges.

**10.5. Incompatible materials**

Oxidizing agents. Pyrophoric or self-heating substances.

**10.6. Hazardous decomposition products**

Incomplete combustion and thermolysis gases of different toxicity can occur. In the case of hydrocarbonaceous products such as CO, CO<sub>2</sub>, aldehydes and soot. These can be very dangerous if they are inhaled in high

**Safety Data Sheet**

according to UK REACH Regulation

**160S System-Wirkstoff Set**

Revision date: 16.07.2020

Product code: 1103458

Page 7 of 13

concentrations or in enclosed spaces.

**Further information**

Do not mix with other chemicals.

**SECTION 11: Toxicological information****11.1. Information on hazard classes as defined in GB CLP Regulation****Toxicokinetics, metabolism and distribution**

There are no data available on the mixture itself.

**Acute toxicity**

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

**ATEmix calculated**

ATE (oral) &gt; 2000 mg/kg; ATE (dermal) &gt; 2000 mg/kg; ATE (inhalation vapour) &gt; 20 mg/l; ATE (inhalation dust/mist) &gt; 5 mg/l

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
64742-82-1	Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25 %)				
	oral	LD50 > 15000 mg/kg	Rat	OECD 401	
	dermal	LD50 3400 mg/kg	Rabbit	OECD 402	
	inhalation (4 h) vapour	LC50 13100 mg/l	Rat	OECD 403	
7491-09-0	potassium 1,2-bis(2-ethylhexyloxycarbonyl)ethanesulphonate				
	oral	LD50 > 3000 mg/kg	Rat	Study report (1988)	OECD Guideline 401
	dermal	LD50 > 10000 mg/kg	Rabbit	Study report (1977)	OECD Guideline 402
64742-47-8	Distillates (petroleum), hydrotreated light, Kerosine - unspecified				
	oral	LD50 >2000 mg/kg	Rat		
	dermal	LD50 >2000 mg/kg	Rat		
	inhalation (4 h) vapour	LC50 > 20 mg/l	Rat		
64742-82-1	Naphtha (petroleum), hydrodesulfurized heavy; Low boiling point hydrogen treated naphtha				
	oral	LD50 > 5000 mg/kg	Rat		
	dermal	LD50 > 2001 mg/kg	Rabbit		
	inhalation (4 h) vapour	LC50 > 5000 mg/l	Rat		
	Reaction mass of 2,6-di-tert-butylphenol and 2,4,6-tri-tert-butylphenol				
	oral	LD50 2976 mg/kg	Rat	Study report (1991)	OECD Guideline 401
	dermal	LD50 > 2000 mg/kg	Rat	Study report (1991)	OECD Guideline 402

**Safety Data Sheet**

according to UK REACH Regulation

**160S System-Wirkstoff Set**

Revision date: 16.07.2020

Product code: 1103458

Page 8 of 13

**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**

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

No indication of human carcinogenicity.

No indications of human germ cell mutagenicity exist.

No indications of human reproductive toxicity exist.

**STOT-single exposure**

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

**STOT-repeated exposure**

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

**Aspiration hazard**

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

**Information on likely routes of exposure**

Ingestion, Inhalation, Skin contact, Eye contact.

Reference to other sections: 2.1, 4.2.

**Specific effects in experiment on an animal**

No information available.

**11.2. Information on other hazards****Endocrine disrupting properties**

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

**Other information**

No information available.

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

There are no data available on the mixture itself.



**Safety Data Sheet**

according to UK REACH Regulation

**160S System-Wirkstoff Set**

Revision date: 16.07.2020

Product code: 1103458

Page 9 of 13

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
64742-82-1	Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25 %)					
	Acute fish toxicity	LC50 mg/l	10 - 30	96 h	Leuciscus idus (golden orfe)	
	Acute algae toxicity	ErC50 mg/l	4,6 - 10	72 h	Pseudokirchneriella subcapitata	
	Acute crustacea toxicity	EC50 mg/l	10 - 22	48 h	Daphnia magna	
7491-09-0	potassium 1,2-bis(2-ethylhexyloxycarbonyl)ethanesulphonate					
	Acute fish toxicity	LC50	49 mg/l	96 h	Danio rerio (zebrafish)	
	Acute algae toxicity	ErC50 mg/l	39,3	72 h	Desmodesmus subspicatus	Study report (1993) other: EWG 88/302
	Acute crustacea toxicity	EC50 mg/l	> 30	48 h	Daphnia magna (Big water flea)	
	Fish toxicity	NOEC	20 mg/l	4 d	Danio rerio (zebrafish)	
64742-47-8	Distillates (petroleum), hydrotreated light, Kerosine - unspecified					
	Acute fish toxicity	LC50 mg/l	>1000	96 h	Oncorhynchus mykiss (Rainbow trout)	
	Acute algae toxicity	ErC50 mg/l	>1000	72 h	Pseudokirchneriella subcapitata	
	Acute crustacea toxicity	EC50 mg/l	>1000	48 h	Daphnia magna	
64742-82-1	Naphtha (petroleum), hydrodesulfurized heavy; Low boiling point hydrogen treated naphtha					
	Acute fish toxicity	LC50	68 mg/l	96 h	Pimephales promelas	
	Acute algae toxicity	ErC50	>50 mg/l		Scenedesmus subspicatus	
	Acute crustacea toxicity	EC50	>50 mg/l	48 h	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	Study report (1993) OECD Guideline 201
	Acute crustacea toxicity	EC50	0,4 mg/l	48 h	Daphnia magna	Study report (1993) EU Method C.2

**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
7491-09-0	potassium 1,2-bis(2-ethylhexyloxycarbonyl)ethanesulphonate	1,998
	Reaction mass of 2,6-di-tert-butylphenol and 2,4,6-tri-tert-butylphenol	4,5 - 5,3

**Safety Data Sheet**

according to UK REACH Regulation

**160S System-Wirkstoff Set**

Revision date: 16.07.2020

Product code: 1103458

Page 10 of 13

**BCF**

CAS No	Chemical name	BCF	Species	Source
	Reaction mass of 2,6-di-tert-butylphenol and 2,4,6-tri-tert-butylphenol	660		Read-across (2010)

**12.4. Mobility in soil**

No information available.

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

The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH.

This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

**12.6. Endocrine disrupting properties**

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

**12.7. Other adverse effects**

No information available.

**SECTION 13: Disposal considerations****13.1. Waste treatment methods****Disposal recommendations**

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

**List of Wastes Code - residues/unused products**

160504 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; gases in pressure containers (including halons) containing hazardous substances; hazardous waste

**List of Wastes Code - used product**

160504 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; gases in pressure containers (including halons) containing hazardous substances; hazardous waste

**List of Wastes Code - 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

**SECTION 14: Transport information****Land transport (ADR/RID)**

<b>14.1. UN number or ID number:</b>	UN 1950
<b>14.2. UN proper shipping name:</b>	AEROSOLS
<b>14.3. Transport hazard class(es):</b>	2
<b>14.4. Packing group:</b>	-
Hazard label:	2.1
Classification code:	5F
Special Provisions:	190 327 344 625
Limited quantity:	1 L
Excepted quantity:	E0
Transport category:	2
Tunnel restriction code:	D

**Inland waterways transport (ADN)**

<b>14.1. UN number or ID number:</b>	UN 1950
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**Safety Data Sheet**

according to UK REACH Regulation

**160S System-Wirkstoff Set**

Revision date: 16.07.2020

Product code: 1103458

Page 11 of 13

<b>14.2. UN proper shipping name:</b>	AEROSOLS
<b>14.3. Transport hazard class(es):</b>	2
<b>14.4. Packing group:</b>	-
Hazard label:	2.1
Classification code:	5F
Special Provisions:	190 327 344 625
Limited quantity:	1 L
Excepted quantity:	E0

**Marine transport (IMDG)**

<b>14.1. UN number or ID number:</b>	UN 1950
<b>14.2. UN proper shipping name:</b>	AEROSOLS (Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25 %))
<b>14.3. Transport hazard class(es):</b>	2.1
<b>14.4. Packing group:</b>	-
Hazard label:	2.1
Marine pollutant:	yes
Special Provisions:	63, 190, 277, 327, 344, 381,959
Limited quantity:	1000 mL
Excepted quantity:	E0
EmS:	F-D, S-U

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

<b>14.1. UN number or ID number:</b>	UN 1950
<b>14.2. UN proper shipping name:</b>	AEROSOLS, flammable
<b>14.3. Transport hazard class(es):</b>	2.1
<b>14.4. Packing group:</b>	-
Hazard label:	2.1
Special Provisions:	A145 A167 A802
Limited quantity Passenger:	30 kg G
Passenger LQ:	Y203
Excepted quantity:	E0
IATA-packing instructions - Passenger:	203
IATA-max. quantity - Passenger:	75 kg
IATA-packing instructions - Cargo:	203
IATA-max. quantity - Cargo:	150 kg

**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS:	Yes
Danger releasing substance:	Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25 %)

**14.6. Special precautions for user**

Warning: Flammable gases

**14.7. Maritime transport in bulk according to IMO instruments**

Warning: Flammable gases

**Other applicable information**

No information available.

**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 28, Entry 40, Entry 75

**Safety Data Sheet**

according to UK REACH Regulation

**160S System-Wirkstoff Set**

Revision date: 16.07.2020

Product code: 1103458

Page 12 of 13

Directive 2010/75/EU on industrial emissions: No information available.

Directive 2004/42/EC on VOC in paints and varnishes: No information available.

**Additional information**

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) Aerosol Directive (75/324/)

**National regulatory information**

Water hazard class (D): 1 - slightly hazardous to water

**SECTION 16: Other information****Changes**

This data sheet contains changes from the previous version in section(s): 1,2,6,9,11,14,15.

**Abbreviations and acronyms**

Flam. Liq: Flammable liquids  
Asp. Tox: Aspiration hazard  
Skin Irrit: Skin irritation  
Eye Dam: Eye damage  
Eye Irrit: Eye irritation  
STOT SE: Specific target organ toxicity - single exposure  
STOT RE: Specific target organ toxicity - repeated exposure  
Aquatic Acute: Acute aquatic hazard  
Aquatic Chronic: Chronic aquatic hazard  
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)  
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)  
IATA: International Air Transport Association  
IMDG: International Maritime Code for Dangerous Goods  
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 (division of the American Chemical Society)  
DNEL/DMEL: Derived No Effect Level / Derived Minimal Effect Level  
WEL (UK): Workplace Exposure Limits  
TWA (EC): Time-Weighted Average  
ATE: Acute Toxicity Estimate  
STEL (EC) Short Term Exposure Limit  
LC50: Lethal Concentration  
EC50: half maximal Effective Concentration  
ErC50: means EC50 in terms of reduction of growth rate

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

H226 Flammable liquid and vapour.  
H304 May be fatal if swallowed and enters airways.  
H315 Causes skin irritation.  
H318 Causes serious eye damage.  
H319 Causes serious eye irritation.  
H336 May cause drowsiness or dizziness.  
H372 Causes damage to organs (Central nervous system) through prolonged or repeated exposure if inhaled.

**Safety Data Sheet**

according to UK REACH Regulation

**160S System-Wirkstoff Set**

Revision date: 16.07.2020

Product code: 1103458

Page 13 of 13

H372	Causes damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.

**Further Information**

Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]:  
Calculation method.

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