42551 Velbert

Date printed 15.09.2021, Revision 15.09.2021

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

1.1 Product identifier

Super-Start Plus – Starting aid spray Article number: 2897330310 UFI: 31V1-PQ08-5100-K80W

1.2 Relevant identified uses of the substance or mixture and uses advised against

1.2.1 Relevant uses

Starting aid spray

1.2.2 Uses advised against

None known.

1.3 Details of the supplier of the safety data sheet

	••	•
	Company	Normfest GmbH Siemensstraße 23 42551 Velbert / GERMANY Phone +49 2051 275-0 Fax +49 2051 275-141 Homepage www.normfest.com E-mail info@normfest.de
	Address enquiries to	
	Technical information	info@normfest.de
	Safety Data Sheet	sdb@chemiebuero.de
1.4	Emergency telephone number	
	Advisory body	145 (24h)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture [REGULATION (GB) CLP]

Aerosol 1: H222 Extremely flammable aerosol. H229 Pressurised container: May burst if

heated. Eye Irrit. 2: H319 Causes serious eye irritation. STOT SE 3: H336 May cause drowsiness or dizziness. Aquatic Chronic 2: H411 Toxic to aquatic life with long lasting effects. Skin Irrit. 2: H315 Causes skin irritation. Asp. Tox. 1: H304 May be fatal if swallowed and enters airways.



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2.2 Label elements

Hazard pictograms Image: Contains in the second			The product is required to be labelled in accordance with regulation CLP.
Contains: Diethyl ether Acetone Pentane Hydrocarbons, C6, isoalkanes, <5% n-hexane Hydrocarbons, C6-7, isoalkanes, cyclics, < 5% n-hexane Hazard statements H222 Extremely flammable aerosol. H222 Extremely flammable aerosol. H222 Extremely flammable aerosol. H229 Pressurised container: May burst if heated. H319 Causes serious eye irritation. H41 Toxic to aquatic life with hong lasting effects. H336 May cause drowsiness or dizziness. H315 Causes skin irritation. Percautionary statements P210 Do not spray on an open flame or other ignition source. P251 Do not pierce or burn, even after use. P211 Do not spray on an open flame or other ignition source. P251 Do not pierce or burn, even after use. P211 Use onty outdoors or in a well-ventilated area. P273 Void release to the environment. P280 Wear protective gloves / eye protection. P337+P313 If eye irritation persists: Get medical advice / attention. P326 Lala FOISON CENTER / doctor if you feel unwell. P405 Store locked up. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313 If eye irritation persists: Get medical advice / attention. P31 P305 HP338 IF IN EYES: Rinse cautiously with water for several minutes. P405 Ubespoe of content		Hazard pictograms	
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H229 Pressurised container: May burst if heated. H319 Causes serious eye irritation. H311 Toxic to aquatic life with long lasting effects. H336 May cause drowsiness or dizziness. H315 Causes skin irritation. Precautionary statements P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P211 Do not spray on an open flame or other ignition source. P251 Do not pierce or burn, even after use. P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C / 122°F. P260 Do not breathe vapours / spray. P271 Use only outdoors or in a well-ventilated area. P273 Avoid release to the environment. P280 Wear protective gloves / eye protection. P305+P331 IF NI EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P371 Use only outdoors or in a well-ventilated area. P371+P331 If eye irritation persists: Get medical advice / attention. P305+P331 IF and I a POISON CENTER / doctor if you feel unwell. P405 Store locked up. P501 Dispose of contents/container in accordance with local/national regulation. 23. Other hazards Does not contain any PBT or vPvB substances. Contains no ingredients with endocrine-disrupting properties. Contains no ingredients with endocrine-disrupting properties. Other hazards Further hazards were not			Hydrocarbons, C6-C7, isoalkanes, cyclics, < 5% n-hexane
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Other hazards Further hazards were not determined with the current level of knowledge.	2.3	Other hazards	
		Environmental hazards	
		Other hazards	Further hazards were not determined with the current level of knowledge.
SECTION 3: Composition / Information on ingredients	SEC		

3.1 Substances

not applicable



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3.2 Mixtures

The	product	is a	mixture

Range [%]	Substance
25 - <50	Butane
	CAS: 106-97-8
	GHS/CLP: Flam. Gas 1: H220 - Press. Gas: H280
15 - <20	Diethyl ether
	CAS: 60-29-7
	GHS/CLP: Flam. Liq. 1: H224 - Acute Tox. 4: H302 - STOT SE 3: H336 - EUH019 - EUH066
10 - <15	Propane
	CAS: 74-98-6
	GHS/CLP: Flam. Gas 1: H220 - Press. Gas: H280
10 - >15	Acetone
	CAS: 67-64-1
	GHS/CLP: Flam. Liq. 2: H225 - Eye Irrit. 2: H319 - STOT SE 3: H336 - EUH066
10 - >15	Pentane
	CAS: 109-66-0
	GHS/CLP: Flam. Liq. 2: H225 - Asp. Tox. 1: H304 - STOT SE 3: H336 - Aquatic Chronic 2: H411
5 - <10	Hydrocarbons, C6, isoalkanes, <5% n-hexane
	CAS: 64742-49-0
	GHS/CLP: Flam. Liq. 2: H225 - Skin Irrit. 2: H315 - Asp. Tox. 1: H304 - STOT SE 3: H336 - Aquatic Chronic 2: H411
1 - <5	Hydrocarbons, C6-C7, isoalkanes, cyclics, < 5% n-hexane
	GHS/CLP: Flam. Liq. 2: H225 - Aquatic Chronic 2: H411 - Asp. Tox. 1: H304 - STOT SE 3: H336 EUH066
2,5 - <5	Cyclohexane
	CAS: 110-82-7
	GHS/CLP: Flam. Liq. 2: H225 - Asp. Tox. 1: H304 - Skin Irrit. 2: H315 - STOT SE 3: H336 - Aquatic Acute 1: H400 - Aquatic Chronic 1: H410, M-Factor (acute): 1, M-Factor (chronic): 1
1 - <5	iso-Butane
	CAS: 75-28-5
	GHS/CLP: Flam. Gas 1: H220 - Press. Gas: H280
0,1 - <1	n-Hexane
	CAS: 110-54-3
	GHS/CLP: Flam. Liq. 2: H225 - Repr. 2: H361f - Asp. Tox. 1: H304 - STOT RE 2: H373 - Skin Irrit. 2: H315 - STOT SE 3: H336 - Aquatic Chronic 2: H411
	SCL [%]: >= 5: STOT RE 2: H373
Comment on com	ponent parts Substances of Very High Concern - SVHC: substances are not contained or are below 0.1%. For full text of H-statements: see SECTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information	Change soaked clothing.
Inhalation	Ensure supply of fresh air. In the event of symptoms seek medical treatment.
Skin contact	In case of contact with skin wash off immediately with soap and water. Consult a doctor if skin irritation persists.
Eye contact	In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice.
Ingestion	Consult a doctor immediately.

4.2 Most important symptoms and effects, both acute and delayed

Irritant effects Drowsiness Vertigo

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4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically. SECTION 5: Fire-fighting measures 5.1 Extinguishing media Suitable extinguishing media Carbon dioxide. Water spray jet. Dry powder. Foam. Full water jet. Extinguishing media that must not be used 5.2 Special hazards arising from the substance or mixture Risk of formation of toxic pyrolysis products. Not combusted hydrocarbons. Carbon monoxide (CO). Bursting aerosols can be forcibly projected from a fire. 5.3 Advice for firefighters Use self-contained breathing apparatus. Fire residues and contaminated firefighting water must be disposed of in accordance within the local regulations. Cool containers at risk with water spray jet. SECTION 6: Accidental release measures 6.1 Personal precautions, protective equipment and emergency procedures Keep away from all sources of ignition. Ensure adequate ventilation. Use personal protective equipment (protective gloves, safety glasses, protective clothing). High risk of slipping due to leakage/spillage of product. **Environmental precautions** 6.2 Do not discharge into the drains/surface waters/groundwater. Methods and material for containment and cleaning up 6.3 Take up residues with absorbent material (e.g. sand). Dispose of absorbed material in accordance within the regulations. Reference to other sections 6.4 See SECTION 8+13 SECTION 7: Handling and storage

7.1 Precautions for safe handling

Use only in well-ventilated areas. Use solvent-resistant equipment.

Keep away from all sources of ignition - Refrain from smoking. Vapours can form an explosive mixture with air.

Do not eat, drink, smoke or take drugs at work. Wash hands before breaks and after work. Use barrier skin cream.



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7.2 Conditions for safe storage, including any incompatibilities

Provide solvent-resistant and impermeable floor.

Do not store together with oxidizing agents.

Protect from heat/overheating and from sun. Keep in a cool place, heat causes increase in pressure and risk of bursting.

7.3 Specific end use(s)

See product use, SECTION 1.2

Safety Data Sheet (UK REACH) (GB) Super-Start Plus – Starting aid spray Article number 2897330310 Normfest GmbH

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SECTION 8: Exposure controls / personal protection

8.1 Control parameters

Ingredients with occupational exposure limits to be monitored (GB)

Substance	
Pentane	
CAS: 109-66-0	
Long-term exposure	e: 600 ppm, 1800 mg/m³
Butane	
CAS: 106-97-8	
Long-term exposure	e: 600 ppm, 1450 mg/m³
Short-term exposur	re (15-minute): 750 ppm, 1810 mg/m ³
Cyclohexane	
CAS: 110-82-7	
Long-term exposure	e: 100 ppm, 350 mg/m³
Short-term exposur	re (15-minute): 300 ppm, 1050 mg/m ³
Diethyl ether	
CAS: 60-29-7	
Long-term exposure	e: 100 ppm, 310 mg/m ³
Short-term exposur	re (15-minute): 200 ppm, 620 mg/m ³
Acetone	
CAS: 67-64-1	
Long-term exposure	e: 500 ppm, 1210 mg/m³
Short-term exposur	re (15-minute): 1500 ppm, 3620 mg/m ³
iso-Butane	
CAS: 75-28-5	
Long-term exposure	e: 600 ppm, 1450 mg/m³, (Butane)
Short-term exposur	re (15-minute): 750 ppm, 1810 mg/m ³

Long-term exposure: 1200 mg/m ³
Hydrocarbons, C6, isoalkanes, <5% n-hexane
CAS: 64742-49-0
Long-term exposure: 1200 mg/m ³
n-Hexane
CAS: 110-54-3
Long-term exposure: 20 ppm, 72 mg/m ³

DNEL

Substance	
Butane, CAS: 106-97-8	
There are no DNEL values established for the substance.	
Hydrocarbons, C6, isoalkanes, <5% n-hexane, CAS: 64742-49-0	
Industrial, dermal, Long-term - systemic effects, 13964 mg/kg bw/day	
Industrial, inhalative, Long-term - systemic effects, 5306 mg/m ³	
general population, inhalative, Long-term - systemic effects, 1131 mg/m ³	
general population, dermal, Long-term - systemic effects, 1377 mg/kg bw/day	-
general population, oral, Long-term - systemic effects, 1301 mg/kg bw/day	
2020 140 (0)041 646 252 0 210002	nmf00690 CB



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Industrial, inhalative, Long-term - systemic effects, 1210 mg/m ³ Industrial, dermal, Long-term - local effects, 2420 mg/m ³ general population, dermal, Long-term - systemic effects, 62 mg/kg bw/d general population, inhalative, Long-term - systemic effects, 62 mg/kg bw/d general population, inhalative, Long-term - systemic effects, 200 mg/m ³ Propane, CAS: 74-98-6 There are no DNEL values established for the substance. Hydrocarbons, C6-C7, isoalkanes, cyclics, < 5% n-hexane Industrial, dermal, Long-term - systemic effects, 13964 mg/kg bw/day Industrial, dermal, Long-term - systemic effects, 13064 mg/kg bw/day Industrial, inhalative, Long-term - systemic effects, 1301 mg/kg bw/day general population, oral, Long-term - systemic effects, 1301 mg/kg bw/day general population, inhalative, Long-term - systemic effects, 1377 mg/kg bw/day general population, inhalative, Long-term - systemic effects, 1377 mg/kg bw/day general population, inhalative, Long-term - systemic effects, 1377 mg/kg bw/day general population, inhalative, Long-term - systemic effects, 1377 mg/kg bw/day general population, inhalative, Long-term - systemic effects, 1311 mg/m ³ Ditchy ethre, CAS: 60-29-7 Industrial, inhalative, Acute - systemic effects, 616 mg/m ³ Industrial, inhalative, Acute - systemic effects, 616 mg/m ³ Industrial, inhalative, Long-term - systemic effects, 516, fmg/kg bw/day general population, dermal, Long-term - systemic effects, 54, 5 mg/m ³ iso-Butane, CAS: 75-28-5 There are no DNEL values established for the substance. Pentane, CAS: 109-60-0 Industrial, inhalative, Long-term - systemic effects, 54, 5 mg/m ³ general population, inhalative, Long-term - systemic effects, 54, 5 mg/m ³ general population, oral, Long-term - systemic effects, 214 mg/kg bw/day general population, inhalative, Long-term - systemic effects, 214 mg/kg bw/day general population, dermal, Long-term - systemic effects, 214 mg/kg bw/day Substance Butane, CAS: 106-97-8 There are no DNEC values established for the subs	Industrial, dermal, Long-term - systemic effects, 186 mg/kg bw/d Industrial, inhalative, Long-term - systemic effects, 62 mg/kg bw/d general population, oral, Long-term - systemic effects, 62 mg/kg bw/d general population, inhalative, Long-term - systemic effects, 200 mg/m ³ Propane, CAS: 74-98-6 There are no DNEL values established for the substance. Hydrocarbons, C6-C7, isoalkanes, cyclics, < 5% n-hexane Industrial, dermal, Long-term - systemic effects, 13964 mg/kg bw/day general population, org-term - systemic effects, 13064 mg/kg bw/day general population, org-term - systemic effects, 1301 mg/kg bw/day general population, dermal, Long-term - systemic effects, 1301 mg/kg bw/day general population, dermal, Long-term - systemic effects, 1371 mg/kg bw/day general population, inhalative, Long-term - systemic effects, 1371 mg/kg bw/day general population, inhalative, Long-term - systemic effects, 1371 mg/m3 Diethyl ether, CAS: 60-29-7 Industrial, inhalative, Long-term - systemic effects, 308 mg/m ³ Industrial, inhalative, Long-term - systemic effects, 516 mg/m3 Industrial, inhalative, Long-term - systemic effects, 15.6 mg/kg bw/day general population, dermal, Long-term - systemic effects, 15.6 mg/kg bw/day general population, dermal, Long-term - systemic effects, 54.5 mg/m3 iso-Butane, CAS: 75-28-5 There are no DNEL values established for the substance. Pentane, CAS: 109-66-0 Industrial, dermal, Long-term - systemic effects, 214 mg/kg bw/day general population, inhalative, Long-term - systemic effects, 214 mg/kg bw/day general population, inhalative, Long-term - systemic effects, 214 mg/kg bw/day general population, inhalative, Long-term - systemic effects, 214 mg/kg bw/day general population, inhalative, Long-term - systemic effects, 214 mg/kg bw/day Substance Butane, CAS: 106-97-8 There are no DNEC values established for the substance. Acetone, CAS: 67-64-1 sediment (freshwater), 30,4 mg/kg sediment dw sediment (freshwater), 30,4 mg/kg sediment dw		CAS: 67-64-1
Industrial, inhalative, Long-term - local effects, 2420 mg/m ³ general population, oral, Long-term - systemic effects, 62 mg/kg bw/d general population, oral, Long-term - systemic effects, 62 mg/kg bw/d general population, inhalative, Long-term - systemic effects, 200 mg/m ³ Propane, CAS: 74-98-6 There are no DNEL values established for the substance. Hydrocarbons, C6-C7, isoalkanes, cyclics, < 5% n-hexane Industrial, inhalative, Long-term - systemic effects, 13964 mg/kg bw/day Industrial, inhalative, Long-term - systemic effects, 5306 mg/m ³ general population, oral, Long-term - systemic effects, 1301 mg/kg bw/day general population, oral, Long-term - systemic effects, 1301 mg/kg bw/day general population, inhalative, Long-term - systemic effects, 1301 mg/kg bw/day general population, inhalative, Long-term - systemic effects, 1131 mg/m ³ Dichtyl ether, CAS: 60-29-7 Industrial, inhalative, Long-term - systemic effects, 506 mg/m ³ Industrial, inhalative, Long-term - systemic effects, 515,6 mg/kg bw/day general population, oral, Long-term - systemic effects, 515,6 mg/kg bw/day general population, oral, Long-term - systemic effects, 515,6 mg/kg bw/day general population, al, Long-term - systemic effects, 515,6 mg/kg bw/day general population, al, Long-term - systemic effects, 54,5 mg/m ³ iso-Butane, CAS: 75-28-5 There are no DNEL values established for the substance. Pentane, CAS: 109-66-0 Industrial, inhalative, Long-term - systemic effects, 214 mg/kg bw/day general population, inhalative, Long-term - systemic effects, 214 mg/kg bw/day general population, inhalative, Long-term - systemic effects, 214 mg/kg bw/day general population, inhalative, Long-term - systemic effects, 214 mg/kg bw/day general population, inhalative, Long-term - systemic effects, 214 mg/kg bw/day general population, inhalative, Long-term - systemic effects, 214 mg/kg bw/day general population, inhalative, Long-term - systemic effects, 214 mg/kg bw/day Substance Butane, CAS: 106-97-8 There are no PNEC values established for the substanc	Industrial, inhalative, Long-term - local effects, 2420 mg/m ³ general population, dermal, Long-term - systemic effects, 62 mg/kg bw/d general population, inhalative, Long-term - systemic effects, 62 mg/kg bw/d general population, inhalative, Long-term - systemic effects, 200 mg/m ³ Propane, CAS: 74-98-6 There are no DNEL values established for the substance. Hydrocarbons, C6-C7, isoalkanes, cyclics, < 5% n-hexane Industrial, inhalative, Long-term - systemic effects, 1304 mg/kg bw/day Industrial, inhalative, Long-term - systemic effects, 1301 mg/kg bw/day general population, oral, Long-term - systemic effects, 1301 mg/kg bw/day general population, inhalative, Long-term - systemic effects, 1301 mg/kg bw/day general population, inhalative, Long-term - systemic effects, 1301 mg/kg bw/day general population, inhalative, Long-term - systemic effects, 1377 mg/kg bw/day general population, inhalative, Long-term - systemic effects, 1371 mg/m ³ Diethyl ether, CAS: 60-29-7 Industrial, inhalative, Acue - systemic effects, 308 mg/m ³ Industrial, inhalative, Acue - systemic effects, 41 mg/kg bw/day general population, dermal, Long-term - systemic effects, 15,6 mg/kg bw/day general population, dermal, Long-term - systemic effects, 15,6 mg/kg bw/day general population, darmal, Long-term - systemic effects, 54,5 mg/m ³ isoeButane, CAS: 75-28-5 There are no DNEL values established for the substance. Pentane, CAS: 109-66-0 Industrial, inhalative, Long-term - systemic effects, 543 mg/m ³ general population, oral, Long-term - systemic effects, 543 mg/m ³ general population, oral, Long-term - systemic effects, 214 mg/kg bw/day general population, oral, Long-term - systemic effects, 214 mg/kg bw/day general population, oral, Long-term - systemic effects, 214 mg/kg bw/day general population, dermal, Long-term - systemic effects, 214 mg/kg bw/day general population, dermal, Long-term - systemic effects, 214 mg/kg bw/day general population, dermal, Long-term - systemic effects, 214 mg/kg bw/day general population, dermal, Long-t		
general population, dermal, Long-term - systemic effects, 62 mg/kg bw/d general population, inhalative, Long-term - systemic effects, 200 mg/m ³ Propane, CAS: 74-98-6 There are no DNEL values established for the substance. Hydrocarbons, C&C-7, isoalkanes, cyclics, < 5% n-hexane Industrial, dermal, Long-term - systemic effects, 13964 mg/kg bw/day Industrial, inhalative, Long-term - systemic effects, 1306 mg/m ³ general population, oral, Long-term - systemic effects, 1301 mg/kg bw/day Industrial, inhalative, Long-term - systemic effects, 1301 mg/kg bw/day general population, dermal, Long-term - systemic effects, 1307 mg/kg bw/day general population, dermal, Long-term - systemic effects, 1377 mg/kg bw/day general population, dermal, Long-term - systemic effects, 1377 mg/kg bw/day general population, inhalative, Long-term - systemic effects, 1311 mg/m ³ Diethyl ether, CAS: 60-29-7 Industrial, inhalative, Long-term - systemic effects, 136 mg/m ³ Industrial, inhalative, Long-term - systemic effects, 15,6 mg/kg bw/day general population, dermal, Long-term - systemic effects, 15,6 mg/kg bw/day general population, inhalative, Long-term - systemic effects, 54,5 mg/mg bw/day general population, dermal, Long-term - systemic effects, 54,5 mg/mg bw/day general population, inhalative, Long-term - systemic effects, 54,5 mg/mg and	general population, dermal, Long-term - systemic effects, 62 mg/kg bw/d general population, oral, Long-term - systemic effects, 62 mg/kg bw/d general population, inhalative, Long-term - systemic effects, 200 mg/m ³ Propane, CAS: 74-98-6 There are no DNEL values established for the substance. Hydrocarbons, C6-C7, isoalkanes, cyclics, < 5% n-hexane Industrial, inhalative, Long-term - systemic effects, 13964 mg/kg bw/day Industrial, inhalative, Long-term - systemic effects, 1301 mg/kg bw/day general population, inhalative, Long-term - systemic effects, 1377 mg/kg bw/day general population, inhalative, Long-term - systemic effects, 1377 mg/kg bw/day general population, inhalative, Long-term - systemic effects, 1377 mg/kg bw/day general population, inhalative, Long-term - systemic effects, 1377 mg/kg bw/day general population, inhalative, Long-term - systemic effects, 1377 mg/kg bw/day general population, inhalative, Long-term - systemic effects, 1377 mg/kg bw/day general population, oral, Long-term - systemic effects, 5.6 mg/m ³ Industrial, inhalative, Acute - systemic effects, 5.6 mg/m ³ Industrial, inhalative, Long-term - systemic effects, 5.6 mg/kg bw/day general population, oral, Long-term - systemic effects, 5.6 mg/kg bw/day general population, inhalative, Long-term - systemic effects, 5.6 mg/kg bw/day general population, inhalative, Long-term - systemic effects, 5.4 mg/kg bw/day general population, inhalative, Long-term - systemic effects, 5.4 mg/kg bw/day general population, inhalative, Long-term - systemic effects, 5.4 mg/kg bw/day general population, oral, Long-term - systemic effects, 214 mg/kg bw/day general population, oral, Long-term - systemic effects, 214 mg/kg bw/day general population, oral, Long-term - systemic effects, 214 mg/kg bw/day general population, oral, Long-term - systemic effects, 214 mg/kg bw/day general population, inhalative, Long-term - systemic effects, 214 mg/kg bw/day general population, inhalative, Long-term - systemic effects, 214 mg/kg bw/day general population, inhalative,		
general population, oral, Long-term - systemic effects, 62 mg/kg bw/d general population, inhalative, Long-term - systemic effects, 200 mg/m ³ Propane, CAS: 74-98-6 There are no DNEL values established for the substance. Hydrocarbons, C6-C7, isoalkanes, cyclics, < 5% n-hexane Industrial, dermal, Long-term - systemic effects, 13064 mg/kg bw/day Industrial, inhalative, Long-term - systemic effects, 5306 mg/m ³ general population, oral, Long-term - systemic effects, 1301 mg/kg bw/day general population, oral, Long-term - systemic effects, 1307 mg/kg bw/day general population, inhalative, Long-term - systemic effects, 1317 mg/kg bw/day general population, inhalative, Long-term - systemic effects, 1317 mg/kg bw/day general population, inhalative, Long-term - systemic effects, 1131 mg/m ³ Diethyl ether, CAS: 60-29-7 Industrial, inhalative, Long-term - systemic effects, 308 mg/m ³ Industrial, inhalative, Long-term - systemic effects, 506 mg/kg bw/day general population, dermal, Long-term - systemic effects, 51,6 mg/kg bw/day general population, dermal, Long-term - systemic effects, 15,6 mg/kg bw/day general population, oral, Long-term - systemic effects, 54,5 mg/kg bw/day general population, oral, Long-term - systemic effects, 54,5 mg/kg bw/day general population, inhalative, Long-term - systemic effects, 54,5 mg/m ³ iso-Butane, CAS: 75-28-5 There are no DNEL values established for the substance. Pentane, CAS: 109-66-0 Industrial, dermal, Long-term - systemic effects, 3000 mg/m ³ general population, oral, Long-term - systemic effects, 214 mg/kg bw/day general population, oral, Long-term - systemic effects, 214 mg/kg bw/day general population, dermal, Long-term - systemic effects, 214 mg/kg bw/day Substance Butane, CAS: 106-97-8 There are no PNEC values established for the substance. Accetone, CAS: 67-64-1 seawater, 1,06 mg/L sediment (freshwater), 30,4 mg/kg sediment dw sediment (reshwater), 30,4 mg/kg sediment dw	general population, oral, Long-term - systemic effects, 62 mg/kg bw/d general population, inhalative, Long-term - systemic effects, 200 mg/m ³ Propane, CAS: 74-98-6 There are no DNEL values established for the substance. Hydrocarbons, C6-C7, isoalkanes, cyclics, < 5% n-hexane Industrial, dermal, Long-term - systemic effects, 1394 mg/kg bw/day Industrial, inhalative, Long-term - systemic effects, 1301 mg/kg bw/day general population, oral, Long-term - systemic effects, 1301 mg/kg bw/day general population, oral, Long-term - systemic effects, 1371 mg/kg bw/day general population, dermal, Long-term - systemic effects, 1377 mg/kg bw/day general population, inhalative, Long-term - systemic effects, 1131 mg/m ³ Diethyl ether, CAS: 60-29-7 Industrial, inhalative, Long-term - systemic effects, 308 mg/m ³ Industrial, inhalative, Long-term - systemic effects, 516. mg/kg bw/day general population, dermal, Long-term - systemic effects, 515.6 mg/kg bw/day general population, oral, Long-term - systemic effects, 515.6 mg/kg bw/day general population, oral, Long-term - systemic effects, 515.6 mg/kg bw/day general population, oral, Long-term - systemic effects, 54.5 mg/m3 Industrial, inhalative, Long-term - systemic effects, 54.5 mg/m3 iso-Butane, CAS: 75-28-5 There are no DNEL values established for the substance. Pentane, CAS: 109-66-0 Industrial, inhalative, Long-term - systemic effects, 214 mg/kg bw/day general population, oral, Long-term - systemic effects, 214 mg/kg bw/day general population, oral, Long-term - systemic effects, 214 mg/kg bw/day general population, inhalative, Long-term - systemic effects, 214 mg/kg bw/day Substance Butane, CAS: 106-67-8 There are no DNEC values established for the substance. Acetone, CAS: 67-64-1 seawater, 1.06 mg/L sediment (feetwater), 30.4 mg/kg sediment dw sediment (seawater), 30.4 mg/kg sediment dw		
general population, inhalative, Long-term - systemic effects, 200 mg/m ³ Propane, CAS: 74-98-6 There are no DNEL values established for the substance. Hydrocarbons, C6-C7, isoalkanes, cyclics, < 5% n-hexane Industrial, dermal, Long-term - systemic effects, 13964 mg/kg bw/day Industrial, inhalative, Long-term - systemic effects, 5306 mg/m ³ general population, inhalative, Long-term - systemic effects, 1377 mg/kg bw/day general population, inhalative, Long-term - systemic effects, 1377 mg/kg bw/day general population, inhalative, Long-term - systemic effects, 1377 mg/kg bw/day general population, inhalative, Long-term - systemic effects, 1377 mg/kg bw/day general population, inhalative, Long-term - systemic effects, 1377 mg/kg bw/day general population, inhalative, Long-term - systemic effects, 1377 mg/kg bw/day general population, dermal, Long-term - systemic effects, 15,6 mg/kg bw/day general population, dermal, Long-term - systemic effects, 15,6 mg/kg bw/day general population, dermal, Long-term - systemic effects, 54,5 mg/m ³ Industrial, dermal, Long-term - systemic effects, 15,6 mg/kg bw/day general population, inhalative, Long-term - systemic effects, 54,5 mg/m ³ iso-Butane, CAS: 75-28-5 There are no DNEL values established for the substance. Pentane, CAS: 109-66-0 Industrial, dermal, Long-term - systemic effects, 214 mg/kg bw/day general population, inhalative, Long-term - systemic effects, 214 mg/kg bw/day general population, inhalative, Long-term - systemic effects, 214 mg/kg bw/day general population, inhalative, Long-term - systemic effects, 214 mg/kg bw/day Substance Butane, CAS: 106-97-8 There are no DNEC values established for the substance. Acetone, CAS: 67-64-1 seawater, 1.06 mg/L sectiment (freshwater), 30,4 mg/kg sediment dw sediment (seawater), 30,4 mg/kg sediment dw	general population, inhalative, Long-term - systemic effects, 200 mg/m ³ Propane, CAS: 74-98-6 There are no DNEL values established for the substance. Hydrocarbons, C6-C7, isoalkanes, cyclics, < 5% n-hexane Industrial, inhalative, Long-term - systemic effects, 13064 mg/kg bw/day general population, oral, Long-term - systemic effects, 5306 mg/m ³ general population, inhalative, Long-term - systemic effects, 1301 mg/kg bw/day general population, inhalative, Long-term - systemic effects, 1301 mg/kg bw/day general population, inhalative, Long-term - systemic effects, 1131 mg/m ³ Diethyl ether, CAS: 60-29-7 Industrial, inhalative, Long-term - systemic effects, 5165 mg/kg bw/day general population, inhalative, Long-term - systemic effects, 516 mg/m ³ Industrial, inhalative, Long-term - systemic effects, 516 mg/m ³ Industrial, inhalative, Acute - systemic effects, 516 mg/kg bw/day general population, dermal, Long-term - systemic effects, 51,56 mg/kg bw/day general population, oral, Long-term - systemic effects, 51,56 mg/kg bw/day general population, inhalative, Long-term - systemic effects, 54,5 mg/m ³ iso-Butae, CAS: 709-66-0 Industrial, dermal, Long-term - systemic effects, 432 mg/kg bw/day Industrial, inhalative, Long-term - systemic effects, 214 mg/kg bw/day general population, oral, Long-term - systemic effects, 214 mg/kg bw/day general population, oral, Long-term - systemic effects, 214 mg/kg bw/day general population, oral, Long-term - systemic effects, 214 mg/kg bw/day general population, oral, Long-term - systemic effects, 214 mg/kg bw/day general population, oral, Long-term - systemic effects, 214 mg/kg bw/day general population, inhalative, Long-term - systemic effects, 214 mg/kg bw/day general population, dermal, Long-term - systemic effects, 214 mg/kg bw/day general population, dermal, Long-term - systemic effects, 214 mg/kg bw/day general population, dermal, Long-term - systemic effects, 214 mg/kg bw/day general population, dermal, Long-term - systemic effects, 214 mg/kg bw/day general population,		
Propane, CAS: 74-98-6 There are no DNEL values established for the substance. Hydrocarbons, C6-C7, isoalkanes, cyclics, < 5% n-hexane Industrial, dermal, Long-term - systemic effects, 13964 mg/kg bw/day Industrial, inhalative, Long-term - systemic effects, 1307 mg/kg bw/day general population, oral, Long-term - systemic effects, 1301 mg/kg bw/day general population, inhalative, Long-term - systemic effects, 1311 mg/m3 Dibthyl ether, CAS: 60-29-7 Industrial, inhalative, Long-term - systemic effects, 308 mg/m3 Industrial, inhalative, Long-term - systemic effects, 1311 mg/m3 Dibthyl ether, CAS: 60-29-7 Industrial, inhalative, Long-term - systemic effects, 1311 mg/m3 Industrial, inhalative, Long-term - systemic effects, 15,6 mg/kg bw/day general population, dermal, Long-term - systemic effects, 15,6 mg/kg bw/day general population, oral, Long-term - systemic effects, 15,6 mg/kg bw/day general population, inhalative, Long-term - systemic effects, 54,5 mg/kg bw/day general population, inhalative, Long-term - systemic effects, 54,5 mg/kg bw/day general population, inhalative, Long-term - systemic effects, 54,5 mg/kg bw/day general population, inhalative, Long-term - systemic effects, 54,5 mg/kg bw/day general population, inhalative, Long-term - systemic effects, 54,5 mg/kg bw/day general population, inhalative, Long-term - systemic effects, 214 mg/kg bw/day general population, oral, Long-term - systemic effects, 214 mg/kg bw/day general population, inhalative, Long-term - systemic effects, 214 mg/kg bw/day Substance Butane, CAS: 106-97-8 There are no PNEC values established for the substance. Acetone, CAS: 106-97-8 There are no PNEC values established for the substance. Acetone, CAS: 67-64-1 seawater, 1,06 mg/L sediment (freshwater), 30,4 mg/kg sediment dw sediment (seawater), 3,04 mg/kg sediment dw	Propane, CAS: 74-98-6 There are no DNEL values established for the substance. Hydrocarbons, C6-C7, isoalkanes, cyclics, < 5% n-hexane Industrial, dermal, Long-term - systemic effects, 13964 mg/kg bw/day Industrial, inhalative, Long-term - systemic effects, 5306 mg/m ³ general population, oral, Long-term - systemic effects, 1377 mg/kg bw/day general population, inhalative, Long-term - systemic effects, 1377 mg/kg bw/day general population, inhalative, Long-term - systemic effects, 1377 mg/kg bw/day general population, inhalative, Long-term - systemic effects, 1377 mg/kg bw/day general population, inhalative, Long-term - systemic effects, 1377 mg/kg bw/day general population, inhalative, Long-term - systemic effects, 1377 mg/kg bw/day general population, inhalative, Long-term - systemic effects, 136 mg/m ³ Industrial, inhalative, Acute - systemic effects, 616 mg/m ³ Industrial, inhalative, Long-term - systemic effects, 15,6 mg/kg bw/day general population, dermal, Long-term - systemic effects, 51,5 mg/kg bw/day general population, inhalative, Long-term - systemic effects, 54,5 mg/m ³ iso-Butane, CAS: 75-28-5 There are no DNEL values established for the substance. Pentane, CAS: 109-66-0 Industrial, dermal, Long-term - systemic effects, 214 mg/kg bw/day general population, inhalative, Long-term - systemic effects, 52, 53 mg/m ³ general population, and, Long-term - systemic effects, 214 mg/kg bw/day general population, inhalative, Long-term - systemic effects, 214 mg/kg bw/day general population, inhalative, Long-term - systemic effects, 214 mg/kg bw/day Substance Butane, CAS: 106-97-8 There are no PNEC values established for the substance. Acetone, CAS: 67-64-1 seawater, 1,06 mg/L seamater, 1,06 mg/L seamater, 1,06 mg/kg sediment dw sediment (seawater), 30,4 mg/kg sediment dw sediment (seawater), 30,4 mg/kg sediment dw sediment (seawater), 1,00 mg/L		
There are no DNEL values established for the substance. Hydrocarbons, C6-C7, isoalkanes, cyclics, < 5% n-hexane Industrial, dermal, Long-term - systemic effects, 13964 mg/kg bw/day Industrial, inhalative, Long-term - systemic effects, 1301 mg/kg bw/day general population, oral, Long-term - systemic effects, 1377 mg/kg bw/day general population, inhalative, Long-term - systemic effects, 1377 mg/kg bw/day general population, inhalative, Long-term - systemic effects, 1377 mg/kg bw/day general population, inhalative, Long-term - systemic effects, 1371 mg/m ³ Diethyl ether, CAS: 60-29-7 Industrial, inhalative, Long-term - systemic effects, 308 mg/m ³ Industrial, inhalative, Long-term - systemic effects, 50, 5 mg/kg bw/day general population, dermal, Long-term - systemic effects, 50, 5 mg/kg bw/day general population, dermal, Long-term - systemic effects, 15,6 mg/kg bw/day general population, oral, Long-term - systemic effects, 54,5 mg/m ³ iso-Butane, CAS: 75-28-5 There are no DNEL values established for the substance. Pentane, CAS: 109-66-0 Industrial, dermal, Long-term - systemic effects, 54,5 mg/m ³ general population, oral, Long-term - systemic effects, 214 mg/kg bw/day general population, oral, Long-term - systemic effects, 214 mg/kg bw/day general population, oral, Long-term - systemic effects, 214 mg/kg bw/day general population, inhalative, Long-term - systemic effects, 643 mg/m ³ general population, inhalative, Long-term - systemic effects, 214 mg/kg bw/day general population, inhalative, Long-term - systemic effects, 214 mg/kg bw/day Substance Butane, CAS: 106-97-8 There are no PNEC values established for the substance. Acetone, CAS: 67-64-1 seawater, 1,06 mg/L sediment (freshwater), 30,4 mg/kg sediment dw sediment (seawater), 30,4 mg/kg sediment dw	There are no DNEL values established for the substance. Hydrocarbons, C6-C7, isoalkanes, cyclics, < 5% n-hexane Industrial, dermal, Long-term - systemic effects, 13964 mg/kg bw/day Industrial, inhalative, Long-term - systemic effects, 1301 mg/kg bw/day general population, oral, Long-term - systemic effects, 1301 mg/kg bw/day general population, inhalative, Long-term - systemic effects, 1377 mg/kg bw/day general population, inhalative, Long-term - systemic effects, 1317 mg/m ³ Diethyl ether, CAS: 60-29-7 Industrial, inhalative, Long-term - systemic effects, 4131 mg/m ³ Industrial, inhalative, Long-term - systemic effects, 15,6 mg/kg bw/day general population, oral, Long-term - systemic effects, 15,6 mg/kg bw/day general population, oterm - systemic effects, 15,6 mg/kg bw/day general population, oterm - systemic effects, 15,6 mg/kg bw/day general population, inhalative, Long-term - systemic effects, 54,5 mg/m ³ iso-Butane, CAS: 75-26-5 There are no DNEL values established for the substance. Pentane, CAS: 109-66-0 Industrial, inhalative, Long-term - systemic effects, 320 mg/m ³ general population, oral, Long-term - systemic effects, 214 mg/kg bw/day general population, oral, Long-term - systemic effects, 214 mg/kg bw/day general population, oral, Long-term - systemic effects, 214 mg/kg bw/day general population, oral, Long-term - systemic effects, 214 mg/kg bw/day general population, oral, Long-term - systemic effects, 214 mg/kg bw/day Substance Butane, CAS: 106-97-8 There are no PNEC values established for the substance. Acetone, CAS: 67-64-1 seawater, 1,06 mg/L seadiment (freshwater), 30,4 mg/kg sediment dw sediment (seawater), 100 mg/L	general po	pulation, inhalative, Long-term - systemic effects, 200 mg/m ³
Hydrocarbons, C6-C7, isoalkanes, cyclics, < 5% n-hexane Industrial, dermal, Long-term - systemic effects, 13964 mg/kg bw/day Industrial, inhalative, Long-term - systemic effects, 1301 mg/kg bw/day general population, oral, Long-term - systemic effects, 1377 mg/kg bw/day general population, inhalative, Long-term - systemic effects, 1371 mg/m ³ Diethyl ether, CAS: 60-29-7 Industrial, inhalative, Long-term - systemic effects, 308 mg/m ³ Industrial, inhalative, Long-term - systemic effects, 308 mg/m ³ Industrial, inhalative, Long-term - systemic effects, 308 mg/m ³ Industrial, inhalative, Long-term - systemic effects, 15,6 mg/kg bw/day general population, dermal, Long-term - systemic effects, 15,6 mg/kg bw/day general population, oral, Long-term - systemic effects, 15,6 mg/kg bw/day general population, oral, Long-term - systemic effects, 51,6 mg/kg bw/day general population, oral, Long-term - systemic effects, 54,5 mg/m ³ iso-Butane, CAS: 75-28-5 There are no DNEL values established for the substance. Pentane, CAS: 109-66-0 Industrial, dermal, Long-term - systemic effects, 3000 mg/m ³ general population, oral, Long-term - systemic effects, 214 mg/kg bw/day general population, oral, Long-term - systemic effects, 214 mg/kg bw/day general population, oral, Long-term - systemic effects, 214 mg/kg bw/day general population, oral, Long-term - systemic effects, 214 mg/kg bw/day general population, oral, Long-term - systemic effects, 214 mg/kg bw/day general population, oral, Long-term - systemic effects, 214 mg/kg bw/day general population, dermal, Long-term - systemic effects, 214 mg/kg bw/day general population, dermal, Long-term - systemic effects, 214 mg/kg bw/day Substance Butane, CAS: 106-97-8 There are no PNEC values established for the substance. Acetone, CAS: 67-64-1 seawater, 1,06 mg/L sediment (freshwater), 30,4 mg/kg sediment dw sediment (seawater), 30,4 mg/kg sediment dw	Hydrocarbons, C6-C7, isoalkanes, cyclics, < 5% n-hexane Industrial, dermal, Long-term - systemic effects, 13964 mg/kg bw/day Industrial, inhalative, Long-term - systemic effects, 1301 mg/kg bw/day general population, oral, Long-term - systemic effects, 1301 mg/kg bw/day general population, inhalative, Long-term - systemic effects, 1131 mg/m ³ Diethyl ether, CAS: 60-29-7 Industrial, inhalative, Long-term - systemic effects, 308 mg/m ³ Industrial, inhalative, Long-term - systemic effects, 308 mg/m ³ Industrial, inhalative, Acute - systemic effects, 616 mg/m ³ Industrial, inhalative, Acute - systemic effects, 44 mg/kg bw/day general population, dermal, Long-term - systemic effects, 15.6 mg/kg bw/day general population, dermal, Long-term - systemic effects, 15.6 mg/kg bw/day general population, inhalative, Long-term - systemic effects, 54.5 mg/m ³ iso-Butane, CAS: 75-28-5 There are no DNEL values established for the substance. Pentane, CAS: 109-66-0 Industrial, inhalative, Long-term - systemic effects, 214 mg/kg bw/day general population, oral, Long-term - systemic effects, 214 mg/kg bw/day general population, oral, Long-term - systemic effects, 214 mg/kg bw/day general population, oral, Long-term - systemic effects, 214 mg/kg bw/day general population, oral, Long-term - systemic effects, 214 mg/kg bw/day general population, oral, Long-term - systemic effects, 214 mg/kg bw/day general population, oral, Long-term - systemic effects, 214 mg/kg bw/day general population, dermal, Long-term - systemic effects, 214 mg/kg bw/day Substance Butane, CAS: 106-97-8 There are no PNEC values established for the substance. Acetone, CAS: 67-64-1 seawater, 1,06 mg/L sediment (freshwater), 30,4 mg/kg sediment dw sediment (freshwater), 30,4 mg/kg sediment dw sediment (freshwater), 30,4 mg/kg sediment dw sediment (seawater), 30,4 mg/kg sediment dw sediment (seawater) plants (STP), 100 mg/L	Propane,	CAS: 74-98-6
Industrial, dermal, Long-term - systemic effects, 13964 mg/kg bw/day Industrial, inhalative, Long-term - systemic effects, 5306 mg/m ³ general population, oral, Long-term - systemic effects, 1301 mg/kg bw/day general population, dermal, Long-term - systemic effects, 1377 mg/kg bw/day general population, inhalative, Long-term - systemic effects, 1131 mg/m ³ Diethyl ether, CAS: 60-29-7 Industrial, inhalative, Long-term - systemic effects, 308 mg/m ³ Industrial, inhalative, Long-term - systemic effects, 308 mg/m ³ Industrial, inhalative, Acute - systemic effects, 616 mg/m ³ Industrial, dermal, Long-term - systemic effects, 51,6 mg/kg bw/day general population, dermal, Long-term - systemic effects, 15,6 mg/kg bw/day general population, oral, Long-term - systemic effects, 15,6 mg/kg bw/day general population, inhalative, Long-term - systemic effects, 54,5 mg/m ³ iso-Butane, CAS: 75-28-5 There are no DNEL values established for the substance. Pentane, CAS: 109-66-0 Industrial, dermal, Long-term - systemic effects, 3000 mg/m ³ general population, oral, Long-term - systemic effects, 3000 mg/m ³ general population, oral, Long-term - systemic effects, 214 mg/kg bw/day general population, inhalative, Long-term - systemic effects, 214 mg/kg bw/day general population, dermal, Long-term - systemic effects, 214 mg/kg bw/day general population, dermal, Long-term - systemic effects, 214 mg/kg bw/day Substance Butane, CAS: 106-97-8 There are no PNEC values established for the substance. Acetone, CAS: 67-64-1 seawater, 1,06 mg/L sediment (freshwater), 30,4 mg/kg sediment dw sediment (seawater), 30,4 mg/kg sediment dw	Industrial, dermal, Long-term - systemic effects, 13964 mg/kg bw/day Industrial, inhalative, Long-term - systemic effects, 1301 mg/kg bw/day general population, oral, Long-term - systemic effects, 1377 mg/kg bw/day general population, inhalative, Long-term - systemic effects, 1131 mg/m ³ Diethyl ether, CAS: 60-29-7 Industrial, inhalative, Long-term - systemic effects, 308 mg/m ³ Industrial, inhalative, Long-term - systemic effects, 308 mg/m ³ Industrial, inhalative, Long-term - systemic effects, 616 mg/m ³ Industrial, dermal, Long-term - systemic effects, 41 mg/kg bw/day general population, dermal, Long-term - systemic effects, 15,6 mg/kg bw/day general population, oral, Long-term - systemic effects, 15,6 mg/kg bw/day general population, oral, Long-term - systemic effects, 54,5 mg/m ³ iso-Butane, CAS: 75-28-5 There are no DNEL values established for the substance. Pentane, CAS: 109-66-0 Industrial, dermal, Long-term - systemic effects, 300 mg/m ³ general population, oral, Long-term - systemic effects, 214 mg/kg bw/day general population, oral, Long-term - systemic effects, 214 mg/kg bw/day general population, oral, Long-term - systemic effects, 214 mg/kg bw/day general population, oral, Long-term - systemic effects, 432 mg/kg bw/day general population, oral, Long-term - systemic effects, 434 mg/kg bw/day general population, oral, Long-term - systemic effects, 214 mg/kg bw/day general population, oral, Long-term - systemic effects, 214 mg/kg bw/day Substance Butane, CAS: 106-97-8 There are no PNEC values established for the substance. Acetone, CAS: 67-64-1 seawater, 1,06 mg/L sediment (freshwater), 30,4 mg/kg sediment dw sediment (seawater), 3,04 mg/kg sediment dw sediment (seawater), 3,04 mg/kg sediment dw sediment (seawater), 3,04 mg/kg sediment dw sediment (seawater), and mg/kg sediment dw sediment plants (STP), 100 mg/L	There are	no DNEL values established for the substance.
Industrial, inhalative, Long-term - systemic effects, 5306 mg/m ³ general population, oral, Long-term - systemic effects, 1301 mg/kg bw/day general population, inhalative, Long-term - systemic effects, 1377 mg/kg bw/day general population, inhalative, Long-term - systemic effects, 1131 mg/m ³ Diethyl ether, CAS: 60-29-7 Industrial, inhalative, Long-term - systemic effects, 308 mg/m ³ Industrial, inhalative, Acute - systemic effects, 616 mg/m ³ Industrial, dermal, Long-term - systemic effects, 51,6 mg/kg bw/day general population, dermal, Long-term - systemic effects, 15,6 mg/kg bw/day general population, oral, Long-term - systemic effects, 15,6 mg/kg bw/day general population, oral, Long-term - systemic effects, 54,5 mg/m ³ iso-Butane, CAS: 75-28-5 There are no DNEL values established for the substance. Pentane, CAS: 109-66-0 Industrial, dermal, Long-term - systemic effects, 3000 mg/m ³ general population, oral, Long-term - systemic effects, 214 mg/kg bw/day general population, oral, Long-term - systemic effects, 214 mg/kg bw/day general population, oral, Long-term - systemic effects, 214 mg/kg bw/day general population, oral, Long-term - systemic effects, 214 mg/kg bw/day general population, dermal, Long-term - systemic effects, 214 mg/kg bw/day general population, dermal, Long-term - systemic effects, 214 mg/kg bw/day general population, dermal, Long-term - systemic effects, 214 mg/kg bw/day Substance Butane, CAS: 106-97-8 There are no PNEC values established for the substance. Acetone, CAS: 67-64-1 seawater, 1,06 mg/L sediment (freshwater), 30,4 mg/kg sediment dw sediment (seawater), 3,04 mg/kg sediment dw	Industrial, inhalative, Long-term - systemic effects, 5306 mg/m³ general population, oral, Long-term - systemic effects, 1301 mg/kg bw/day general population, dermal, Long-term - systemic effects, 1317 mg/kg bw/day general population, inhalative, Long-term - systemic effects, 1131 mg/m³ Diethyl ether, CAS: 60-29-7 Industrial, inhalative, Acute - systemic effects, 616 mg/m³ Industrial, inhalative, Acute - systemic effects, 616 mg/m³ Industrial, inhalative, Acute - systemic effects, 616 mg/m³ Industrial, dermal, Long-term - systemic effects, 15,6 mg/kg bw/day general population, dermal, Long-term - systemic effects, 15,6 mg/kg bw/day general population, oral, Long-term - systemic effects, 54,5 mg/m³ iso-Butane, CAS: 75-28-5 There are no DNEL values established for the substance. Pentane, CAS: 109-66-0 Industrial, dermal, Long-term - systemic effects, 214 mg/kg bw/day general population, oral, Long-term - systemic effects, 214 mg/kg bw/day general population, inhalative, Long-term - systemic effects, 214 mg/kg bw/day general population, inhalative, Long-term - systemic effects, 214 mg/kg bw/day general population, inhalative, Long-term - systemic effects, 214 mg/kg bw/day general population, oral, Long-term - systemic effects, 214 mg/kg bw/day general population, oral, Long-term - systemic effects, 214 mg/kg bw/day Substance Butane, CAS: 106-97-8 There are no PNEC values established for the substance. Acetone, CAS: 67-64-1 seawater, 1,06 mg/L sediment (freshwater), 30,4 mg/kg sediment dw sediment (seawater), 3,04 mg/kg sediment dw sediment (seawater), 3,04 mg/kg sediment dw sediment (seawater), 3,04 mg/kg sediment dw sewage treatment plants (STP), 100 mg/L	Hydrocarb	ons, C6-C7, isoalkanes, cyclics, < 5% n-hexane
general population, oral, Long-term - systemic effects, 1301 mg/kg bw/day general population, dermal, Long-term - systemic effects, 1377 mg/kg bw/day general population, inhalative, Long-term - systemic effects, 1131 mg/m³ Diethyl ether, CAS: 60-29-7 Industrial, inhalative, Long-term - systemic effects, 308 mg/m³ Industrial, inhalative, Acute - systemic effects, 616 mg/m³ Industrial, dermal, Long-term - systemic effects, 15,6 mg/kg bw/day general population, dermal, Long-term - systemic effects, 15,6 mg/kg bw/day general population, oral, Long-term - systemic effects, 15,6 mg/kg bw/day general population, oral, Long-term - systemic effects, 54,5 mg/m3 iso-Butane, CAS: 75-28-5 There are no DNEL values established for the substance. Pentane, CAS: 109-66-0 Industrial, dermal, Long-term - systemic effects, 3200 mg/m³ general population, oral, Long-term - systemic effects, 214 mg/kg bw/day general population, oral, Long-term - systemic effects, 214 mg/kg bw/day general population, oral, Long-term - systemic effects, 214 mg/kg bw/day general population, oral, Long-term - systemic effects, 214 mg/kg bw/day general population, dermal, Long-term - systemic effects, 214 mg/kg bw/day general population, dermal, Long-term - systemic effects, 214 mg/kg bw/day Substance Butane, CAS: 106-97-8 There are no PNEC values established for the substance. Acetone, CAS: 67-64-1 seawater, 1,06 mg/L sediment (freshwater), 30,4 mg/kg sediment dw sediment (seawater), 30,4 mg/kg sediment dw	general population, oral, Long-term - systemic effects, 1301 mg/kg bw/day general population, dermal, Long-term - systemic effects, 1377 mg/kg bw/day general population, inhalative, Long-term - systemic effects, 1131 mg/m³ Diethyl ether, CAS: 60-29-7 Industrial, inhalative, Long-term - systemic effects, 308 mg/m³ Industrial, inhalative, Acute - systemic effects, 616 mg/m³ Industrial, dermal, Long-term - systemic effects, 44 mg/kg bw/day general population, dermal, Long-term - systemic effects, 15,6 mg/kg bw/day general population, oral, Long-term - systemic effects, 15,6 mg/kg bw/day general population, inhalative, Long-term - systemic effects, 54,5 mg/m3 iso-Butane, CAS: 75-28-5 There are no DNEL values established for the substance. Pentane, CAS: 109-66-0 Industrial, dermal, Long-term - systemic effects, 3000 mg/m³ general population, ral, Long-term - systemic effects, 214 mg/kg bw/day Industrial, inhalative, Long-term - systemic effects, 214 mg/kg bw/day general population, oral, Long-term - systemic effects, 214 mg/kg bw/day Substance Butane, CAS: 109-66-0 Industrial, dermal, Long-term - systemic effects, 214 mg/kg bw/day general population, nal, Long-term - systemic effects, 214 mg/kg bw/day general population, nal, Long-term - systemic effects, 214 mg/kg bw/day general population, dermal, Long-term - systemic effects, 214 mg/kg bw/day Substance Butane, CAS: 106-97-8 There are no PNEC values established for the substance. Acetone, CAS: 67-64-1 seawater, 1,06 mg/L sediment (freshwater), 30,4 mg/kg sediment dw sediment (seawater), 3,04 mg/kg sediment dw sediment plants (STP), 100 mg/L	Industrial,	dermal, Long-term - systemic effects, 13964 mg/kg bw/day
general population, dermal, Long-term - systemic effects, 1377 mg/kg bw/day general population, inhalative, Long-term - systemic effects, 1131 mg/m ³ Diethyl ether, CAS: 60-29-7 Industrial, inhalative, Long-term - systemic effects, 308 mg/m ³ Industrial, inhalative, Acute - systemic effects, 616 mg/m ³ Industrial, dermal, Long-term - systemic effects, 15,6 mg/kg bw/day general population, dermal, Long-term - systemic effects, 15,6 mg/kg bw/day general population, oral, Long-term - systemic effects, 15,6 mg/kg bw/day general population, oral, Long-term - systemic effects, 54,5 mg/kg bw/day general population, inhalative, Long-term - systemic effects, 54,5 mg/m ³ iso-Butane, CAS: 75-28-5 There are no DNEL values established for the substance. Pentane, CAS: 109-66-0 Industrial, dermal, Long-term - systemic effects, 3000 mg/m ³ general population, oral, Long-term - systemic effects, 214 mg/kg bw/day general population, oral, Long-term - systemic effects, 214 mg/kg bw/day general population, oral, Long-term - systemic effects, 214 mg/kg bw/day general population, oral, Long-term - systemic effects, 214 mg/kg bw/day general population, dermal, Long-term - systemic effects, 214 mg/kg bw/day general population, dermal, Long-term - systemic effects, 214 mg/kg bw/day Substance Butane, CAS: 106-97-8 There are no PNEC values established for the substance. Acetone, CAS: 67-64-1 seawater, 1,06 mg/L sediment (freshwater), 30,4 mg/kg sediment dw sediment (freshwater), 30,4 mg/kg sediment dw	general population, dermal, Long-term - systemic effects, 1377 mg/kg bw/day general population, inhalative, Long-term - systemic effects, 1131 mg/m³ Diethyl ether, CAS: 60-29-7 Industrial, inhalative, Long-term - systemic effects, 308 mg/m³ Industrial, inhalative, Acute - systemic effects, 616 mg/m³ Industrial, dermal, Long-term - systemic effects, 44 mg/kg bw/day general population, dermal, Long-term - systemic effects, 15,6 mg/kg bw/day general population, orral, Long-term - systemic effects, 15,6 mg/kg bw/day general population, inhalative, Long-term - systemic effects, 54,5 mg/m³ iso-Butane, CAS: 75-28-5 There are no DNEL values established for the substance. Pentane, CAS: 109-66-0 Industrial, dermal, Long-term - systemic effects, 3000 mg/m³ general population, ral, Long-term - systemic effects, 214 mg/kg bw/day general population, ral, Long-term - systemic effects, 214 mg/kg bw/day Industrial, inhalative, Long-term - systemic effects, 214 mg/kg bw/day general population, oral, Long-term - systemic effects, 214 mg/kg bw/day general population, nal, Long-term - systemic effects, 214 mg/kg bw/day general population, dermal, Long-term - systemic effects, 214 mg/kg bw/day Substance Butane, CAS: 106-97-8 There are no PNEC values established for the substance. Acetone, CAS: 67-64-1 seawater, 1.06 mg/L sediment (freshwater), 30,4 mg/kg sediment dw sediment (seawater), 3,04 mg/kg sediment dw	Industrial,	inhalative, Long-term - systemic effects, 5306 mg/m ³
general population, inhalative, Long-term - systemic effects, 1131 mg/m ³ Diethyl ether, CAS: 60-29-7 Industrial, inhalative, Long-term - systemic effects, 308 mg/m ³ Industrial, inhalative, Acute - systemic effects, 616 mg/m ³ Industrial, dermal, Long-term - systemic effects, 44 mg/kg bw/day general population, dermal, Long-term - systemic effects, 15,6 mg/kg bw/day general population, oral, Long-term - systemic effects, 15,6 mg/kg bw/day general population, oral, Long-term - systemic effects, 54,5 mg/m ³ iso-Butane, CAS: 75-28-5 There are no DNEL values established for the substance. Pentane, CAS: 109-66-0 Industrial, dermal, Long-term - systemic effects, 3100 mg/m ³ general population, inhalative, Long-term - systemic effects, 214 mg/kg bw/day general population, oral, Long-term - systemic effects, 643 mg/m ³ general population, inhalative, Long-term - systemic effects, 214 mg/kg bw/day general population, oral, Long-term - systemic effects, 214 mg/kg bw/day general population, oral, Long-term - systemic effects, 214 mg/kg bw/day Substance Butane, CAS: 106-97-8 There are no PNEC values established for the substance. Acetone, CAS: 67-64-1 seawater, 1,06 mg/L sediment (freshwater), 30,4 mg/kg sediment dw sediment (seawater), 3,04 mg/kg sediment dw	general population, inhalative, Long-term - systemic effects, 1131 mg/m ³ Diethyl ether, CAS: 60-29-7 Industrial, inhalative, Long-term - systemic effects, 308 mg/m ³ Industrial, inhalative, Acute - systemic effects, 616 mg/m ³ Industrial, dermal, Long-term - systemic effects, 15,6 mg/kg bw/day general population, dermal, Long-term - systemic effects, 15,6 mg/kg bw/day general population, oral, Long-term - systemic effects, 15,6 mg/kg bw/day general population, inhalative, Long-term - systemic effects, 54,5 mg/m ³ iso-Butane, CAS: 75-28-5 There are no DNEL values established for the substance. Pentane, CAS: 109-66-0 Industrial, dermal, Long-term - systemic effects, 322 mg/kg bw/day general population, oral, Long-term - systemic effects, 214 mg/kg bw/day general population, oral, Long-term - systemic effects, 214 mg/kg bw/day general population, oral, Long-term - systemic effects, 214 mg/kg bw/day general population, oral, Long-term - systemic effects, 214 mg/kg bw/day general population, oral, Long-term - systemic effects, 214 mg/kg bw/day general population, dermal, Long-term - systemic effects, 214 mg/kg bw/day Substance Butane, CAS: 106-97-8 There are no PNEC values established for the substance. Acetone, CAS: 67-64-1 seawater, 1,06 mg/L sediment (freshwater), 30,4 mg/kg sediment dw sediment (seawater), 30,4 mg/kg sediment dw sediment (seawater), 30,4 mg/kg sediment dw sediment (seawater), 30,4 mg/kg sediment dw sevage treatment plants (STP), 100 mg/L	general po	pulation, oral, Long-term - systemic effects, 1301 mg/kg bw/day
Diethyl ether, CAS: 60-29-7 Industrial, inhalative, Long-term - systemic effects, 308 mg/m ³ Industrial, inhalative, Acute - systemic effects, 616 mg/m ³ Industrial, dermal, Long-term - systemic effects, 44 mg/kg bw/day general population, dermal, Long-term - systemic effects, 15,6 mg/kg bw/day general population, oral, Long-term - systemic effects, 15,6 mg/kg bw/day general population, inhalative, Long-term - systemic effects, 54,5 mg/m ³ iso-Butane, CAS: 75-28-5 There are no DNEL values established for the substance. Pentane, CAS: 109-66-0 Industrial, dermal, Long-term - systemic effects, 3000 mg/m ³ general population, oral, Long-term - systemic effects, 214 mg/kg bw/day general population, inhalative, Long-term - systemic effects, 214 mg/kg bw/day general population, oral, Long-term - systemic effects, 214 mg/kg bw/day general population, oral, Long-term - systemic effects, 214 mg/kg bw/day general population, dermal, Long-term - systemic effects, 214 mg/kg bw/day general population, dermal, Long-term - systemic effects, 214 mg/kg bw/day Substance Butane, CAS: 106-97-8 There are no PNEC values established for the substance. Acetone, CAS: 67-64-1 seawater, 1,06 mg/L sediment (freshwater), 30,4 mg/kg sediment dw sediment (seawater), 3,04 mg/kg sediment dw	Diethyl ether, CAS: 60-29-7 Industrial, inhalative, Long-term - systemic effects, 308 mg/m ³ Industrial, inhalative, Acute - systemic effects, 616 mg/m ³ Industrial, dermal, Long-term - systemic effects, 15,6 mg/kg bw/day general population, dermal, Long-term - systemic effects, 15,6 mg/kg bw/day general population, oral, Long-term - systemic effects, 15,6 mg/kg bw/day general population, inhalative, Long-term - systemic effects, 54,5 mg/m ³ iso-Butane, CAS: 75-28-5 There are no DNEL values established for the substance. Pentane, CAS: 109-66-0 Industrial, dermal, Long-term - systemic effects, 432 mg/kg bw/day Industrial, inhalative, Long-term - systemic effects, 214 mg/kg bw/day general population, oral, Long-term - systemic effects, 643 mg/m ³ general population, oral, Long-term - systemic effects, 214 mg/kg bw/day Industrial, inhalative, Long-term - systemic effects, 214 mg/kg bw/day general population, oral, Long-term - systemic effects, 214 mg/kg bw/day general population, inhalative, Long-term - systemic effects, 214 mg/kg bw/day Substance Butane, CAS: 106-97-8 There are no PNEC values established for the substance. Acetone, CAS: 67-64-1 seawater, 1,06 mg/L sediment (freshwater), 30,4 mg/kg sediment dw sediment (seawater), 30,4 mg/kg sediment dw sediment (seawater), 30,4 mg/kg sediment dw soil, 29,5 mg/kg soil dw sewage treatment plants (STP), 100 mg/L	general po	pulation, dermal, Long-term - systemic effects, 1377 mg/kg bw/day
Industrial, inhalative, Long-term - systemic effects, 308 mg/m ³ Industrial, inhalative, Acute - systemic effects, 616 mg/m ³ Industrial, dermal, Long-term - systemic effects, 44 mg/kg bw/day general population, dermal, Long-term - systemic effects, 15,6 mg/kg bw/day general population, oral, Long-term - systemic effects, 15,6 mg/kg bw/day general population, inhalative, Long-term - systemic effects, 54,5 mg/m ³ iso-Butane, CAS: 75-28-5 There are no DNEL values established for the substance. Pentane, CAS: 109-66-0 Industrial, dermal, Long-term - systemic effects, 432 mg/kg bw/day Industrial, inhalative, Long-term - systemic effects, 214 mg/kg bw/day general population, oral, Long-term - systemic effects, 214 mg/kg bw/day general population, inhalative, Long-term - systemic effects, 214 mg/kg bw/day general population, dermal, Long-term - systemic effects, 214 mg/kg bw/day general population, dermal, Long-term - systemic effects, 214 mg/kg bw/day general population, dermal, Long-term - systemic effects, 214 mg/kg bw/day general population, dermal, Long-term - systemic effects, 214 mg/kg bw/day general population, dermal, Long-term - systemic effects, 214 mg/kg bw/day Substance Butane, CAS: 106-97-8 There are no PNEC values established for the substance. Acetone, CAS: 67-64-1 seawater, 1,06 mg/L sediment (freshwater), 30,4 mg/kg sediment dw sediment (seawater), 3,04 mg/kg sediment dw	Industrial, inhalative, Long-term - systemic effects, 308 mg/m ³ Industrial, inhalative, Acute - systemic effects, 616 mg/m ³ Industrial, dermal, Long-term - systemic effects, 44 mg/kg bw/day general population, dermal, Long-term - systemic effects, 15,6 mg/kg bw/day general population, oral, Long-term - systemic effects, 15,6 mg/kg bw/day general population, inhalative, Long-term - systemic effects, 54,5 mg/m ³ iso-Butane, CAS: 75-28-5 There are no DNEL values established for the substance. Pentane, CAS: 109-66-0 Industrial, dermal, Long-term - systemic effects, 3000 mg/m ³ general population, oral, Long-term - systemic effects, 214 mg/kg bw/day Industrial, inhalative, Long-term - systemic effects, 643 mg/m ³ general population, inhalative, Long-term - systemic effects, 214 mg/kg bw/day general population, dermal, Long-term - systemic effects, 214 mg/kg bw/day general population, oral, Long-term - systemic effects, 214 mg/kg bw/day general population, dermal, Long-term - systemic effects, 214 mg/kg bw/day Substance Butane, CAS: 106-97-8 There are no PNEC values established for the substance. Acetone, CAS: 67-64-1 seawater, 1,06 mg/L sediment (freshwater), 30,4 mg/kg sediment dw sediment (seawater), 30,4 mg/kg sediment dw sediment (seawater), 30,4 mg/kg sediment dw soil, 29,5 mg/kg soil dw sewage treatment plants (STP), 100 mg/L	general po	pulation, inhalative, Long-term - systemic effects, 1131 mg/m ³
Industrial, inhalative, Acute - systemic effects, 616 mg/m ³ Industrial, dermal, Long-term - systemic effects, 44 mg/kg bw/day general population, dermal, Long-term - systemic effects, 15,6 mg/kg bw/day general population, oral, Long-term - systemic effects, 15,6 mg/kg bw/day general population, inhalative, Long-term - systemic effects, 54,5 mg/m ³ iso-Butane, CAS: 75-28-5 There are no DNEL values established for the substance. Pentane, CAS: 109-66-0 Industrial, dermal, Long-term - systemic effects, 432 mg/kg bw/day Industrial, inhalative, Long-term - systemic effects, 214 mg/kg bw/day general population, oral, Long-term - systemic effects, 214 mg/kg bw/day general population, oral, Long-term - systemic effects, 214 mg/kg bw/day general population, inhalative, Long-term - systemic effects, 214 mg/kg bw/day general population, dermal, Long-term - systemic effects, 214 mg/kg bw/day general population, dermal, Long-term - systemic effects, 214 mg/kg bw/day general population, dermal, Long-term - systemic effects, 214 mg/kg bw/day Substance Butane, CAS: 106-97-8 There are no PNEC values established for the substance. Acetone, CAS: 67-64-1 seawater, 1,06 mg/L sediment (freshwater), 30,4 mg/kg sediment dw sediment (seawater), 3,04 mg/kg sediment dw	Industrial, inhalative, Acute - systemic effects, 616 mg/m ³ Industrial, dermal, Long-term - systemic effects, 44 mg/kg bw/day general population, dermal, Long-term - systemic effects, 15,6 mg/kg bw/day general population, oral, Long-term - systemic effects, 15,6 mg/kg bw/day general population, inhalative, Long-term - systemic effects, 54,5 mg/m ³ iso-Butane, CAS: 75-28-5 There are no DNEL values established for the substance. Pentane, CAS: 109-66-0 Industrial, inhalative, Long-term - systemic effects, 432 mg/kg bw/day Industrial, inhalative, Long-term - systemic effects, 3000 mg/m ³ general population, oral, Long-term - systemic effects, 214 mg/kg bw/day general population, oral, Long-term - systemic effects, 643 mg/m ³ general population, inhalative, Long-term - systemic effects, 214 mg/kg bw/day Substance Butane, CAS: 106-97-8 There are no PNEC values established for the substance. Acetone, CAS: 67-64-1 seawater, 1,06 mg/L sediment (freshwater), 30,4 mg/kg sediment dw sediment (seawater), 30,4 mg/kg sediment dw soil, 29,5 mg/kg soil dw sewage treatment plants (STP), 100 mg/L	Diethyl eth	ner, CAS: 60-29-7
Industrial, dermal, Long-term - systemic effects, 44 mg/kg bw/day general population, dermal, Long-term - systemic effects, 15,6 mg/kg bw/day general population, oral, Long-term - systemic effects, 15,6 mg/kg bw/day general population, inhalative, Long-term - systemic effects, 54,5 mg/m ³ iso-Butane, CAS: 75-28-5 There are no DNEL values established for the substance. Pentane, CAS: 109-66-0 Industrial, dermal, Long-term - systemic effects, 432 mg/kg bw/day Industrial, inhalative, Long-term - systemic effects, 3000 mg/m ³ general population, oral, Long-term - systemic effects, 214 mg/kg bw/day general population, oral, Long-term - systemic effects, 643 mg/m ³ general population, inhalative, Long-term - systemic effects, 214 mg/kg bw/day Substance Butane, CAS: 106-97-8 There are no PNEC values established for the substance. Acetone, CAS: 67-64-1 seawater, 1,06 mg/L sediment (freshwater), 30,4 mg/kg sediment dw	Industrial, dermal, Long-term - systemic effects, 44 mg/kg bw/day general population, dermal, Long-term - systemic effects, 15,6 mg/kg bw/day general population, oral, Long-term - systemic effects, 15,6 mg/kg bw/day general population, inhalative, Long-term - systemic effects, 54,5 mg/m ³ iso-Butane, CAS: 75-28-5 There are no DNEL values established for the substance. Pentane, CAS: 109-66-0 Industrial, dermal, Long-term - systemic effects, 432 mg/kg bw/day Industrial, inhalative, Long-term - systemic effects, 3000 mg/m ³ general population, oral, Long-term - systemic effects, 214 mg/kg bw/day general population, oral, Long-term - systemic effects, 214 mg/kg bw/day general population, inhalative, Long-term - systemic effects, 214 mg/kg bw/day general population, dermal, Long-term - systemic effects, 214 mg/kg bw/day general population, dermal, Long-term - systemic effects, 214 mg/kg bw/day general population, dermal, Long-term - systemic effects, 214 mg/kg bw/day Substance Butane, CAS: 106-97-8 There are no PNEC values established for the substance. Acetone, CAS: 67-64-1 seawater, 1,06 mg/L sediment (freshwater), 30,4 mg/kg sediment dw sediment (seawater), 3,04 mg/kg sediment dw sediment (seawater), 100 mg/L	Industrial,	inhalative, Long-term - systemic effects, 308 mg/m ³
general population, dermal, Long-term - systemic effects, 15,6 mg/kg bw/day general population, oral, Long-term - systemic effects, 15,6 mg/kg bw/day general population, inhalative, Long-term - systemic effects, 54,5 mg/m ³ iso-Butane, CAS: 75-28-5 There are no DNEL values established for the substance. Pentane, CAS: 109-66-0 Industrial, dermal, Long-term - systemic effects, 432 mg/kg bw/day Industrial, inhalative, Long-term - systemic effects, 3000 mg/m ³ general population, oral, Long-term - systemic effects, 214 mg/kg bw/day general population, oral, Long-term - systemic effects, 214 mg/kg bw/day general population, inhalative, Long-term - systemic effects, 214 mg/kg bw/day general population, dermal, Long-term - systemic effects, 214 mg/kg bw/day general population, dermal, Long-term - systemic effects, 214 mg/kg bw/day Substance Butane, CAS: 106-97-8 There are no PNEC values established for the substance. Acetone, CAS: 67-64-1 seawater, 1,06 mg/L sediment (freshwater), 30,4 mg/kg sediment dw sediment (seawater), 3,04 mg/kg sediment dw	general population, dermal, Long-term - systemic effects, 15,6 mg/kg bw/day general population, oral, Long-term - systemic effects, 15,6 mg/kg bw/day general population, inhalative, Long-term - systemic effects, 54,5 mg/m ³ iso-Butane, CAS: 75-28-5 There are no DNEL values established for the substance. Pentane, CAS: 109-66-0 Industrial, dermal, Long-term - systemic effects, 432 mg/kg bw/day Industrial, inhalative, Long-term - systemic effects, 3000 mg/m ³ general population, oral, Long-term - systemic effects, 214 mg/kg bw/day general population, oral, Long-term - systemic effects, 214 mg/kg bw/day general population, inhalative, Long-term - systemic effects, 214 mg/kg bw/day general population, dermal, Long-term - systemic effects, 214 mg/kg bw/day general population, dermal, Long-term - systemic effects, 214 mg/kg bw/day Substance Butane, CAS: 106-97-8 There are no PNEC values established for the substance. Acetone, CAS: 67-64-1 seawater, 1,06 mg/L sediment (freshwater), 30,4 mg/kg sediment dw sediment (seawater), 3,04 mg/kg sediment dw soil, 29,5 mg/kg soil dw sewage treatment plants (STP), 100 mg/L	Industrial,	inhalative, Acute - systemic effects, 616 mg/m ³
general population, oral, Long-term - systemic effects, 15,6 mg/kg bw/day general population, inhalative, Long-term - systemic effects, 54,5 mg/m ³ iso-Butane, CAS: 75-28-5 There are no DNEL values established for the substance. Pentane, CAS: 109-66-0 Industrial, dermal, Long-term - systemic effects, 432 mg/kg bw/day Industrial, inhalative, Long-term - systemic effects, 3000 mg/m ³ general population, oral, Long-term - systemic effects, 214 mg/kg bw/day general population, inhalative, Long-term - systemic effects, 214 mg/kg bw/day general population, dermal, Long-term - systemic effects, 214 mg/kg bw/day general population, dermal, Long-term - systemic effects, 214 mg/kg bw/day Substance Butane, CAS: 106-97-8 There are no PNEC values established for the substance. Acetone, CAS: 67-64-1 seawater, 1,06 mg/L sediment (freshwater), 30,4 mg/kg sediment dw sediment (seawater), 3,04 mg/kg sediment dw	general population, oral, Long-term - systemic effects, 15,6 mg/kg bw/day general population, inhalative, Long-term - systemic effects, 54,5 mg/m ³ iso-Butane, CAS: 75-28-5 There are no DNEL values established for the substance. Pentane, CAS: 109-66-0 Industrial, dermal, Long-term - systemic effects, 432 mg/kg bw/day Industrial, inhalative, Long-term - systemic effects, 3000 mg/m ³ general population, oral, Long-term - systemic effects, 214 mg/kg bw/day general population, inhalative, Long-term - systemic effects, 643 mg/m ³ general population, inhalative, Long-term - systemic effects, 214 mg/kg bw/day Substance Butane, CAS: 106-97-8 There are no PNEC values established for the substance. Acetone, CAS: 67-64-1 seawater, 1,06 mg/L sediment (freshwater), 30,4 mg/kg sediment dw sediment (seawater), 3,04 mg/kg sediment dw soil, 29,5 mg/kg soil dw sewage treatment plants (STP), 100 mg/L	Industrial,	dermal, Long-term - systemic effects, 44 mg/kg bw/day
general population, inhalative, Long-term - systemic effects, 54,5 mg/m ³ iso-Butane, CAS: 75-28-5 There are no DNEL values established for the substance. Pentane, CAS: 109-66-0 Industrial, dermal, Long-term - systemic effects, 432 mg/kg bw/day Industrial, inhalative, Long-term - systemic effects, 3000 mg/m ³ general population, oral, Long-term - systemic effects, 214 mg/kg bw/day general population, inhalative, Long-term - systemic effects, 643 mg/m ³ general population, dermal, Long-term - systemic effects, 214 mg/kg bw/day Substance Butane, CAS: 106-97-8 There are no PNEC values established for the substance. Acetone, CAS: 67-64-1 seawater, 1,06 mg/L sediment (freshwater), 30,4 mg/kg sediment dw	general population, inhalative, Long-term - systemic effects, 54,5 mg/m ³ iso-Butane, CAS: 75-28-5 There are no DNEL values established for the substance. Pentane, CAS: 109-66-0 Industrial, dermal, Long-term - systemic effects, 432 mg/kg bw/day Industrial, inhalative, Long-term - systemic effects, 3000 mg/m ³ general population, oral, Long-term - systemic effects, 214 mg/kg bw/day general population, inhalative, Long-term - systemic effects, 643 mg/m ³ general population, dermal, Long-term - systemic effects, 214 mg/kg bw/day general population, dermal, Long-term - systemic effects, 214 mg/kg bw/day Substance Butane, CAS: 106-97-8 There are no PNEC values established for the substance. Acetone, CAS: 67-64-1 seawater, 1,06 mg/L sediment (freshwater), 30,4 mg/kg sediment dw sediment (seawater), 3,04 mg/kg sediment dw soil, 29,5 mg/kg soil dw sewage treatment plants (STP), 100 mg/L	general po	pulation, dermal, Long-term - systemic effects, 15,6 mg/kg bw/day
iso-Butane, CAS: 75-28-5 There are no DNEL values established for the substance. Pentane, CAS: 109-66-0 Industrial, dermal, Long-term - systemic effects, 432 mg/kg bw/day Industrial, inhalative, Long-term - systemic effects, 3000 mg/m ³ general population, oral, Long-term - systemic effects, 214 mg/kg bw/day general population, inhalative, Long-term - systemic effects, 643 mg/m ³ general population, dermal, Long-term - systemic effects, 214 mg/kg bw/day Substance Butane, CAS: 106-97-8 There are no PNEC values established for the substance. Acetone, CAS: 67-64-1 seawater, 1,06 mg/L sediment (freshwater), 30,4 mg/kg sediment dw sediment (seawater), 3,04 mg/kg sediment dw	iso-Butane, CAS: 75-28-5 There are no DNEL values established for the substance. Pentane, CAS: 109-66-0 Industrial, dermal, Long-term - systemic effects, 432 mg/kg bw/day Industrial, inhalative, Long-term - systemic effects, 3000 mg/m ³ general population, oral, Long-term - systemic effects, 214 mg/kg bw/day general population, oral, Long-term - systemic effects, 643 mg/m ³ general population, dermal, Long-term - systemic effects, 214 mg/kg bw/day Substance Butane, CAS: 106-97-8 There are no PNEC values established for the substance. Acetone, CAS: 67-64-1 seawater, 1,06 mg/L sediment (freshwater), 30,4 mg/kg sediment dw sediment (seawater), 3,04 mg/kg sediment dw soil, 29,5 mg/kg soil dw sewage treatment plants (STP), 100 mg/L	general po	pulation, oral, Long-term - systemic effects, 15,6 mg/kg bw/day
There are no DNEL values established for the substance. Pentane, CAS: 109-66-0 Industrial, dermal, Long-term - systemic effects, 432 mg/kg bw/day Industrial, inhalative, Long-term - systemic effects, 3000 mg/m ³ general population, oral, Long-term - systemic effects, 214 mg/kg bw/day general population, inhalative, Long-term - systemic effects, 643 mg/m ³ general population, dermal, Long-term - systemic effects, 214 mg/kg bw/day Substance Butane, CAS: 106-97-8 There are no PNEC values established for the substance. Acetone, CAS: 67-64-1 seawater, 1,06 mg/L sediment (freshwater), 30,4 mg/kg sediment dw sediment (seawater), 3,04 mg/kg sediment dw	There are no DNEL values established for the substance. Pentane, CAS: 109-66-0 Industrial, dermal, Long-term - systemic effects, 432 mg/kg bw/day Industrial, inhalative, Long-term - systemic effects, 3000 mg/m ³ general population, oral, Long-term - systemic effects, 214 mg/kg bw/day general population, inhalative, Long-term - systemic effects, 643 mg/m ³ general population, dermal, Long-term - systemic effects, 214 mg/kg bw/day Substance Butane, CAS: 106-97-8 There are no PNEC values established for the substance. Acetone, CAS: 67-64-1 seawater, 1,06 mg/L sediment (freshwater), 30,4 mg/kg sediment dw sediment (seawater), 3,04 mg/kg sediment dw soil, 29,5 mg/kg soil dw sewage treatment plants (STP), 100 mg/L	general po	pulation, inhalative, Long-term - systemic effects, 54,5 mg/m ³
Pentane, CAS: 109-66-0 Industrial, dermal, Long-term - systemic effects, 432 mg/kg bw/day Industrial, inhalative, Long-term - systemic effects, 3000 mg/m ³ general population, oral, Long-term - systemic effects, 214 mg/kg bw/day general population, inhalative, Long-term - systemic effects, 643 mg/m ³ general population, dermal, Long-term - systemic effects, 214 mg/kg bw/day Substance Butane, CAS: 106-97-8 There are no PNEC values established for the substance. Acetone, CAS: 67-64-1 seawater, 1,06 mg/L sediment (freshwater), 30,4 mg/kg sediment dw sediment (seawater), 3,04 mg/kg sediment dw	Pentane, CAS: 109-66-0 Industrial, dermal, Long-term - systemic effects, 432 mg/kg bw/day Industrial, inhalative, Long-term - systemic effects, 3000 mg/m ³ general population, oral, Long-term - systemic effects, 214 mg/kg bw/day general population, inhalative, Long-term - systemic effects, 643 mg/m ³ general population, dermal, Long-term - systemic effects, 214 mg/kg bw/day Substance Butane, CAS: 106-97-8 There are no PNEC values established for the substance. Acetone, CAS: 67-64-1 seawater, 1,06 mg/L sediment (freshwater), 3,04 mg/kg sediment dw soil, 29,5 mg/kg soil dw sewage treatment plants (STP), 100 mg/L	iso-Butane	e, CAS: 75-28-5
Industrial, dermal, Long-term - systemic effects, 432 mg/kg bw/day Industrial, inhalative, Long-term - systemic effects, 3000 mg/m ³ general population, oral, Long-term - systemic effects, 214 mg/kg bw/day general population, inhalative, Long-term - systemic effects, 643 mg/m ³ general population, dermal, Long-term - systemic effects, 214 mg/kg bw/day Substance Butane, CAS: 106-97-8 There are no PNEC values established for the substance. Acetone, CAS: 67-64-1 seawater, 1,06 mg/L sediment (freshwater), 30,4 mg/kg sediment dw sediment (seawater), 3,04 mg/kg sediment dw	Industrial, dermal, Long-term - systemic effects, 432 mg/kg bw/day Industrial, inhalative, Long-term - systemic effects, 3000 mg/m ³ general population, oral, Long-term - systemic effects, 214 mg/kg bw/day general population, inhalative, Long-term - systemic effects, 643 mg/m ³ general population, dermal, Long-term - systemic effects, 214 mg/kg bw/day Substance Butane, CAS: 106-97-8 There are no PNEC values established for the substance. Acetone, CAS: 67-64-1 seawater, 1,06 mg/L sediment (freshwater), 30,4 mg/kg sediment dw sediment (seawater), 3,04 mg/kg sediment dw soil, 29,5 mg/kg soil dw sewage treatment plants (STP), 100 mg/L	There are	no DNEL values established for the substance.
Industrial, inhalative, Long-term - systemic effects, 3000 mg/m ³ general population, oral, Long-term - systemic effects, 214 mg/kg bw/day general population, inhalative, Long-term - systemic effects, 643 mg/m ³ general population, dermal, Long-term - systemic effects, 214 mg/kg bw/day Substance Butane, CAS: 106-97-8 There are no PNEC values established for the substance. Acetone, CAS: 67-64-1 seawater, 1,06 mg/L sediment (freshwater), 30,4 mg/kg sediment dw sediment (seawater), 3,04 mg/kg sediment dw	Industrial, inhalative, Long-term - systemic effects, 3000 mg/m ³ general population, oral, Long-term - systemic effects, 214 mg/kg bw/day general population, inhalative, Long-term - systemic effects, 643 mg/m ³ general population, dermal, Long-term - systemic effects, 214 mg/kg bw/day Substance Butane, CAS: 106-97-8 There are no PNEC values established for the substance. Acetone, CAS: 67-64-1 seawater, 1,06 mg/L sediment (freshwater), 30,4 mg/kg sediment dw sediment (seawater), 3,04 mg/kg sediment dw soil, 29,5 mg/kg soil dw sewage treatment plants (STP), 100 mg/L	Pentane,	CAS: 109-66-0
general population, oral, Long-term - systemic effects, 214 mg/kg bw/day general population, inhalative, Long-term - systemic effects, 643 mg/m ³ general population, dermal, Long-term - systemic effects, 214 mg/kg bw/day Substance Butane, CAS: 106-97-8 There are no PNEC values established for the substance. Acetone, CAS: 67-64-1 seawater, 1,06 mg/L sediment (freshwater), 30,4 mg/kg sediment dw sediment (seawater), 3,04 mg/kg sediment dw	general population, oral, Long-term - systemic effects, 214 mg/kg bw/day general population, inhalative, Long-term - systemic effects, 643 mg/m ³ general population, dermal, Long-term - systemic effects, 214 mg/kg bw/day Substance Butane, CAS: 106-97-8 There are no PNEC values established for the substance. Acetone, CAS: 67-64-1 seawater, 1,06 mg/L sediment (freshwater), 30,4 mg/kg sediment dw sediment (seawater), 3,04 mg/kg sediment dw soil, 29,5 mg/kg soil dw sewage treatment plants (STP), 100 mg/L	Industrial,	dermal, Long-term - systemic effects, 432 mg/kg bw/day
general population, oral, Long-term - systemic effects, 214 mg/kg bw/day general population, inhalative, Long-term - systemic effects, 643 mg/m ³ general population, dermal, Long-term - systemic effects, 214 mg/kg bw/day Substance Butane, CAS: 106-97-8 There are no PNEC values established for the substance. Acetone, CAS: 67-64-1 seawater, 1,06 mg/L sediment (freshwater), 30,4 mg/kg sediment dw sediment (seawater), 3,04 mg/kg sediment dw	general population, oral, Long-term - systemic effects, 214 mg/kg bw/day general population, inhalative, Long-term - systemic effects, 643 mg/m ³ general population, dermal, Long-term - systemic effects, 214 mg/kg bw/day Substance Butane, CAS: 106-97-8 There are no PNEC values established for the substance. Acetone, CAS: 67-64-1 seawater, 1,06 mg/L sediment (freshwater), 30,4 mg/kg sediment dw sediment (seawater), 3,04 mg/kg sediment dw soil, 29,5 mg/kg soil dw sewage treatment plants (STP), 100 mg/L	Industrial,	inhalative, Long-term - systemic effects, 3000 mg/m ³
general population, dermal, Long-term - systemic effects, 214 mg/kg bw/day Substance Butane, CAS: 106-97-8 There are no PNEC values established for the substance. Acetone, CAS: 67-64-1 seawater, 1,06 mg/L sediment (freshwater), 30,4 mg/kg sediment dw sediment (seawater), 3,04 mg/kg sediment dw	general population, dermal, Long-term - systemic effects, 214 mg/kg bw/day Substance Butane, CAS: 106-97-8 There are no PNEC values established for the substance. Acetone, CAS: 67-64-1 seawater, 1,06 mg/L sediment (freshwater), 30,4 mg/kg sediment dw sediment (seawater), 3,04 mg/kg sediment dw soil, 29,5 mg/kg soil dw sewage treatment plants (STP), 100 mg/L	general po	pulation, oral, Long-term - systemic effects, 214 mg/kg bw/day
general population, dermal, Long-term - systemic effects, 214 mg/kg bw/day Substance Butane, CAS: 106-97-8 There are no PNEC values established for the substance. Acetone, CAS: 67-64-1 seawater, 1,06 mg/L sediment (freshwater), 30,4 mg/kg sediment dw sediment (seawater), 3,04 mg/kg sediment dw	general population, dermal, Long-term - systemic effects, 214 mg/kg bw/day Substance Butane, CAS: 106-97-8 There are no PNEC values established for the substance. Acetone, CAS: 67-64-1 seawater, 1,06 mg/L sediment (freshwater), 30,4 mg/kg sediment dw sediment (seawater), 3,04 mg/kg sediment dw soil, 29,5 mg/kg soil dw sewage treatment plants (STP), 100 mg/L	general po	population, inhalative, Long-term - systemic effects, 643 mg/m ³
Substance Butane, CAS: 106-97-8 There are no PNEC values established for the substance. Acetone, CAS: 67-64-1 seawater, 1,06 mg/L sediment (freshwater), 30,4 mg/kg sediment dw sediment (seawater), 3,04 mg/kg sediment dw	Substance Butane, CAS: 106-97-8 There are no PNEC values established for the substance. Acetone, CAS: 67-64-1 seawater, 1,06 mg/L sediment (freshwater), 30,4 mg/kg sediment dw sediment (seawater), 3,04 mg/kg sediment dw soil, 29,5 mg/kg soil dw sewage treatment plants (STP), 100 mg/L		
Butane, CAS: 106-97-8 There are no PNEC values established for the substance. Acetone, CAS: 67-64-1 seawater, 1,06 mg/L sediment (freshwater), 30,4 mg/kg sediment dw sediment (seawater), 3,04 mg/kg sediment dw	Butane, CAS: 106-97-8 There are no PNEC values established for the substance. Acetone, CAS: 67-64-1 seawater, 1,06 mg/L sediment (freshwater), 30,4 mg/kg sediment dw sediment (seawater), 3,04 mg/kg sediment dw soil, 29,5 mg/kg soil dw sewage treatment plants (STP), 100 mg/L	5	
Butane, CAS: 106-97-8 There are no PNEC values established for the substance. Acetone, CAS: 67-64-1 seawater, 1,06 mg/L sediment (freshwater), 30,4 mg/kg sediment dw sediment (seawater), 3,04 mg/kg sediment dw	Butane, CAS: 106-97-8 There are no PNEC values established for the substance. Acetone, CAS: 67-64-1 seawater, 1,06 mg/L sediment (freshwater), 30,4 mg/kg sediment dw sediment (seawater), 3,04 mg/kg sediment dw soil, 29,5 mg/kg soil dw sewage treatment plants (STP), 100 mg/L	Substance	
There are no PNEC values established for the substance. Acetone, CAS: 67-64-1 seawater, 1,06 mg/L sediment (freshwater), 30,4 mg/kg sediment dw sediment (seawater), 3,04 mg/kg sediment dw	There are no PNEC values established for the substance. Acetone, CAS: 67-64-1 seawater, 1,06 mg/L sediment (freshwater), 30,4 mg/kg sediment dw sediment (seawater), 3,04 mg/kg sediment dw soil, 29,5 mg/kg soil dw sewage treatment plants (STP), 100 mg/L		
Acetone, CAS: 67-64-1 seawater, 1,06 mg/L sediment (freshwater), 30,4 mg/kg sediment dw sediment (seawater), 3,04 mg/kg sediment dw	Acetone, CAS: 67-64-1 seawater, 1,06 mg/L sediment (freshwater), 30,4 mg/kg sediment dw sediment (seawater), 3,04 mg/kg sediment dw soil, 29,5 mg/kg soil dw sewage treatment plants (STP), 100 mg/L	,	
seawater, 1,06 mg/L sediment (freshwater), 30,4 mg/kg sediment dw sediment (seawater), 3,04 mg/kg sediment dw	seawater, 1,06 mg/L sediment (freshwater), 30,4 mg/kg sediment dw sediment (seawater), 3,04 mg/kg sediment dw soil, 29,5 mg/kg soil dw sewage treatment plants (STP), 100 mg/L		
sediment (freshwater), 30,4 mg/kg sediment dw sediment (seawater), 3,04 mg/kg sediment dw	sediment (freshwater), 30,4 mg/kg sediment dw sediment (seawater), 3,04 mg/kg sediment dw soil, 29,5 mg/kg soil dw sewage treatment plants (STP), 100 mg/L		
sediment (seawater), 3,04 mg/kg sediment dw	sediment (seawater), 3,04 mg/kg sediment dw soil, 29,5 mg/kg soil dw sewage treatment plants (STP), 100 mg/L	,	
	soil, 29,5 mg/kg soil dw sewage treatment plants (STP), 100 mg/L		
son, zə,ə myrky son aw	sewage treatment plants (STP), 100 mg/L		

Propane, CAS: 74-98-6

There are no PNEC values established for the substance.

Diethyl ether, CAS: 60-29-7

soil, 0,66 mg/kg soil dw

freshwater, 2 mg/L

seawater, 0,2 mg/L

sewage treatment plants (STP), 4,2 mg/L

PNEC

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sediment (seawater), 0,914 mg/kg
sediment (freshwater), 9,14 mg/kg
iso-Butane, CAS: 75-28-5
There are no PNEC values established for the substance.
Pentane, CAS: 109-66-0
freshwater, 230 µg/L
seawater, 230 µg/L
sewage treatment plants (STP), 3.6 mg/L
sediment (freshwater), 1.2 mg/kg sediment dw
sediment (seawater), 1.2 mg/kg sediment dw
soil, 550 μg/kg soil dw

8.2 Exposure controls

Additional advice on system design	Ensure adequate ventilation on workstation. Measurement methods for taking workplace measurements must meet the performance requirements of DIN EN 482. For example, recommendations are given in the IFA's list of hazardous substances.
Eye protection	Safety glasses. (EN 166:2001)
Hand protection	0,7 mm Butyl rubber, >480 min (EN 374-1/-2/-3). The details concerned are recommendations. Please contact the glove supplier for further information.
Skin protection	Solvent-resistant protective clothing (EN 340)
Other	Do not inhale gases/vapours/aerosols. Avoid contact with eyes and skin. Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity handled. The resistance of this equipment to chemicals should be ascertained with the respective supplier.
Respiratory protection	In the event of occupational exposure limits being exceeded or of inadequate ventilation: wear appropriate respiratory protection. Short term: filter apparatus, filter A. (DIN EN 14387)
Thermal hazards	not applicable
Delimitation and monitoring of the environmental exposition	See SECTION 6+7.



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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	aerosol
Color	yellowish
Odor	characteristic
Odour threshold	not applicable
pH-value	not applicable
pH-value [1%]	not applicable
Boiling point [°C]	not applicable
Flash point [°C]	not applicable
Flammability (solid, gas) [°C]	not applicable
Lower explosion limit	not determined
Upper explosion limit	not determined
Oxidising properties	no
Vapour pressure/gas pressure [kPa]	420
Density [g/cm³]	0,70 - 0,74 (20°C)
Relative density	not determined
Bulk density [kg/m³]	not applicable
Solubility in water	not applicable
Solubility other solvents	No information available.
Partition coefficient [n-octanol/water]	not determined
Kinematic viscosity	not applicable
Relative vapour density	not applicable
Evaporation speed	not applicable
Melting point [°C]	not applicable
Auto-ignition temperature	not determined
Decomposition temperature [°C]	not applicable
Particle characteristics	No information available.

9.2 Other information

none

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reactions known if used as directed.

10.2 Chemical stability

Stable under normal ambient conditions (ambient temperature).

10.3 Possibility of hazardous reactions

Risk of bursting.

10.4 Conditions to avoid

Strong heating.

10.5 Incompatible materials

Strong oxidizing agent.



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10.6 Hazardous decomposition products

Flammable gases/vapours.

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SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute oral toxicity

not determined

Product
ATE-mix, oral, >2000 mg/kg bw
Substance
Cyclohexane, CAS: 110-82-7
LD50, oral, Rat, > 5000 mg/kg (IUCLID)
Hydrocarbons, C6, isoalkanes, <5% n-hexane, CAS: 64742-49-0

LD50, oral, Rat, 25 mL/kg bw

n-Hexane, CAS: 110-54-3

LD50, oral, Rat, 25000 mg/kg bw (GESTIS)

Acetone, CAS: 67-64-1

LD50, oral, Rat, 5800 mg/kg bw, OECD 401 Hydrocarbons, C6-C7, isoalkanes, cyclics, < 5% n-hexane LD50, oral, Rat, >5000 mg/kg bw Diethyl ether, CAS: 60-29-7 LD50, oral, Rat, 1215 mg/kg bw Pentane, CAS: 109-66-0

LD50, oral, Rat, >2000 mg/kg bw

Acute dermal toxicity

not determined

Product ATE-mix, dermal, >2000 mg/kg bw

Substance
Cyclohexane, CAS: 110-82-7
LD50, dermal, Rabbit, > 2000 mg/kg (IUCLID)
Hydrocarbons, C6, isoalkanes, <5% n-hexane, CAS: 64742-49-0
LD50, dermal, Rabbit, 5 mL/kg bw
n-Hexane, CAS: 110-54-3
LD50, dermal, Rabbit, 3000 mg/kg bw (IUCLID)
Acetone, CAS: 67-64-1
LD50, dermal, Rabbit, >15800 mg/kg bw
Hydrocarbons, C6-C7, isoalkanes, cyclics, < 5% n-hexane
LD50, dermal, Rabbit, >2000 mg/kg bw

Acute inhalational toxicity not determined

Product

ATE-mix, inhalative, >5 mg/L (Aerosol)

Substance

Butane, CAS: 106-97-8

LC50, inhalative, Rat, 658 mg/L (IUCLID)

Hydrocarbons, C6, isoalkanes, <5% n-hexane, CAS: 64742-49-0

LC50, inhalative, Rat, 73860 ppm (4 h)



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n-Hexane, CAS: 110-54-3
LC50, inhalative, Rat, 169 mg/L (4h) (GESTIS)
Acetone, CAS: 67-64-1
LC50, inhalative, Rat, 76 mg/L, 4h
Propane, CAS: 74-98-6
LC50, inhalative, Rat, > 1443 mg/l (15 min) (Lit.)
Hydrocarbons, C6-C7, isoalkanes, cyclics, < 5% n-hexane
LC50, inhalative, Rat, >12 ppm (4h)
Diethyl ether, CAS: 60-29-7
LC50, inhalative, Rat, 73000 mg/L (4h)
iso-Butane, CAS: 75-28-5
LC50, inhalative, mouse, 1237 mg/L
Pentane, CAS: 109-66-0
LC50, inhalative, Rat, 25.3 mg/L, 4h

Serious eye damage/irritation Irritant

Substance	
Butane, CAS: 106-97-8	
Eye, non-irritating	
Propane, CAS: 74-98-6	
Eye, non-irritating	
Hydrocarbons, C6-C7, isoalkanes, cyclics, < 5% n-hexane	
Eye, Rabbit, non-irritating	
iso-Butane, CAS: 75-28-5	
Eye, non-irritating	

Skin corrosion/irritation

Irritant

Substance
Butane, CAS: 106-97-8
dermal, non-irritating
Propane, CAS: 74-98-6
dermal, non-irritating
Hydrocarbons, C6-C7, isoalkanes, cyclics, < 5% n-hexane
dermal, Rabbit, non-irritating
iso-Butane, CAS: 75-28-5
dermal, non-irritating

Respiratory or skin sensitisation Based

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

Substance	
Butane, CAS: 106-97-8	
inhalative, non-sensitizing	
dermal, non-sensitizing	
Propane, CAS: 74-98-6	
inhalative, non-sensitizing	
dermal, non-sensitizing	
Hydrocarbons, C6-C7, isoalkanes, cyclics, < 5% n-hexane	
No information available., negativ	
iso-Butane, CAS: 75-28-5	



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inhalative, non-sensitizing	
dermal, non-sensitizing	

Specific target organ toxicity — Vapours may cause drowsiness and dizziness. single exposure

ubstance
utane, CAS: 106-97-8
halative, non-irritating
ropane, CAS: 74-98-6
halative, non-irritating
ydrocarbons, C6-C7, isoalkanes, cyclics, < 5% n-hexane
ositive
o-Butane, CAS: 75-28-5
halative, non-irritating

Specific target organ toxicity — Based on available data, the classification criteria are not met.

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Substance	
Propane, CAS: 74-98-6	
NOAEC, inhalative, Rat, 4437 mg/m ³	
Hydrocarbons, C6-C7, isoalkanes, cyclics, < 5% n-hexane	
LOAEC, inhalative, Rat, 10 504 mg/m ³ , negativ	

Mutagenicity

Does not contain a relevant substance that meets the classification criteria.

Substance
Hydrocarbons, C6-C7, isoalkanes, cyclics, < 5% n-hexane
OECD 471, negativ

Reproduction toxicity

Does not contain a relevant substance that meets the classification criteria.

Substance	
Hydrocarbons, C6-C7, isoalkanes, cyclics, < 5% n-hexane	
NOAEC, inhalative, Rat, 31680 mg/m ³ , negativ	

Carcinogenicity

Does not contain a relevant substance that meets the classification criteria.

Substance
Hydrocarbons, C6-C7, isoalkanes, cyclics, < 5% n-hexane
NOAEC, inhalative, Rat, 31680 mg/m ³ , negativ

Aspiration hazard

May be fatal if swallowed and enters airways.

General remarks

Toxicological data of complete product are not available. The toxicity data listed pertaining to the ingredients are intended for those working in the medicinal professions, experts for occupational health and safety and toxicologists. The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.

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SECTION 12: Ecological information

12.1 Toxicity

Substance
Cyclohexane, CAS: 110-82-7
LC50, (96h), fish, 93,0 - 117 mg/l (IUCLID)
EC50, (48h), Daphnia magna, 3,78 mg/l (IUCLID)
Hydrocarbons, C6, isoalkanes, <5% n-hexane, CAS: 64742-49-0
EL50, (72h), Algae, 13,56 mg/L
EL50, (48h), Crustacea, 7,138 mg/L
NOELR, (96h), fish, 4,089 mg/L
LL50, (96h), fish, 18,27 mg/L
n-Hexane, CAS: 110-54-3
LC50, (96h), Pimephales promelas, 2,5 mg/L (GESTIS)
Acetone, CAS: 67-64-1
LC50, (48h), Daphnia pulex, 8800 mg/l
LC50, (96h), Oncorhynchus mykiss, 5540 mg/l
NOEC, (96h), Algae, 430 mg/l
Hydrocarbons, C6-C7, isoalkanes, cyclics, < 5% n-hexane
EL50, (48h), Daphnia magna, 17,06 mg/L
Diethyl ether, CAS: 60-29-7
LC50, (48h), Leuciscus idus, 2840 mg/L
EC50, (48h), Daphnia magna, 1380 mg/l (IUCLID)
Pentane, CAS: 109-66-0
EL50, (48h), Invertebrates, 48.11 mg/L
EL50, (72h), Algae, 20.33 mg/L
LL50, (96h), fish, 27.55 mg/L

12.2 Persistence and degradability

Behaviour in environment compartments	not determined
Behaviour in sewage plant	not determined
Biological degradability	not determined

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

Based on all available information not to be classified as PBT or vPvB respectively.

12.6 Endocrine disrupting properties

Does not contain a relevant substance that meets the classification criteria.



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12.7 Other adverse effects

The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials. Ecological data of complete product are not available.

SEC	SECTION 13: Disposal considerations		
13.1	Waste treatment methods		
	Waste material must be disposed of in a	ccordance with national regulations.	
	Product		
		Dispose of as hazardous waste.	
	Contaminated packaging		
		Uncontaminated packaging may be taken for recycling.	
SEC	TION 14: Transport information		
14.1	UN number or ID number		
	Transport by land according to ADR/RID	1950	
	Inland navigation (ADN)	1950	
	Marine transport in accordance with IMDG	1950	
	Air transport in accordance with IATA	1950	
14.2	UN proper shipping name		
	Transport by land according to ADR/RID	Aerosols	
	- Classification Code	5F	
	- Label		
	- ADR LQ	11	
	- ADR 1.1.3.6 (8.6)	Transport category (tunnel restriction code) 2 (D)	
	Inland navigation (ADN)	Aerosols	
	- Classification Code	5F	
	- Label		
	Marine transport in accordance with IMDG	Aerosols (Cyclohexane, Pentane)	
	- EMS	F-D, S-U	
	- Label		
	- IMDG LQ	11	
	Air transport in accordance with IATA	Aerosols, flammable	
	- Label		

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14.3	Transport hazard class(es)	
	Transport by land according to ADR/RID	2
	Inland navigation (ADN)	2
	Marine transport in accordance with IMDG	2.1
	Air transport in accordance with IATA	2.1
14.4	Packing group	
	Transport by land according to ADR/RID	not applicable
	Inland navigation (ADN)	not applicable
	Marine transport in accordance with IMDG	not applicable
	Air transport in accordance with IATA	not applicable
14.5	Environmental hazards	
	Transport by land according to ADR/RID	yes
	Inland navigation (ADN)	yes
	Marine transport in accordance with IMDG	MARINE POLLUTANT
	Air transport in accordance with IATA	yes
14.6	Special precautions for user	
	Relevant information under SECTION 6	io 8.
14.7	Maritime transport in bulk accordi	ng to IMO instruments
	not determined	

SECTION 15: Regulatory information

15.1	5.1 Safety, health and environmental regulations/legislation specific for the substance or mixture		
TRANSPORT-REGULATIONS ADR (2021); IMDG-Code (2021, 40. Amdt.); IATA-DGR (2021)		ADR (2021); IMDG-Code (2021, 40. Amdt.); IATA-DGR (2021)	
	NATIONAL REGULATIONS (GB):	EH40/2005 Workplace exposure limits (Second edition, published December 2011); UK REACH; GB CLP.	
	- Observe employment restrictions for people	Observe employment restrictions for young people. Observe employment restrictions for mothers-to-be and nursing mothers.	
	- VOC (2010/75/CE)	75 %	
15.2	Chemical safety assessment		

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

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SECTION 16: Other information

16.1 Abbreviations and acronyms:

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure ATE = acute toxicity estimate CAS = Chemical Abstracts Service CLP = Classification, Labelling and Packaging DMEL = Derived Minimum Effect Level DNEL = Derived No Effect Level EC50 = Median effective concentration ECB = European Chemicals Bureau EEC = European Economic Community EINECS = European Inventory of Existing Commercial Chemical Substances EL50 = Median effective loading ELINCS = European List of Notified Chemical Substances EmS = Emergency Schedules GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC-Code = International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk IC50 = Inhibition concentration, 50% IMDG = International Maritime Code for Dangerous Goods IUCLID = International Uniform ChemicaL Information Database IVIS = In vitro irritation score LC50 = Lethal concentration, 50% LD50 = Median lethal dose LC0 = lethal concentration, 0% LOAEL = lowest-observed-adverse-effect level LL50 = Median lethal loading LQ = Limited Quantities MARPOL = International Convention for the Prevention of Marine Pollution from Ships NOAEL = No Observed Adverse Effect Level NOEC = No Observed Effect Concentration PBT = Persistent, Bioaccumulative and Toxic substance PNEC = Predicted No-Effect Concentration REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals STP = Sewage Treatment Plant TLV®/TWA = Threshold limit value - time-weighted average TLV®STEL = Threshold limit value - short-time exposure limit VOC = Volatile Organic Compounds vPvB = very Persistent and very Bioaccumulative Aerosol 1: H222 Extremely flammable aerosol. (Bridging principle "Aerosols") H229

16.2 Other information

Classification procedure

Aerosol 1: H222 Extremely flammable aerosol. (Bridging principle "Aerosols") H229 Pressurised container: May burst if heated. (Bridging principle "Aerosols") Eye Irrit. 2: H319 Causes serious eye irritation. (Calculation method) STOT SE 3: H336 May cause drowsiness or dizziness. (Calculation method) Aquatic Chronic 2: H411 Toxic to aquatic life with long lasting effects. (Calculation method) Skin Irrit. 2: H315 Causes skin irritation. (Calculation method) Asp. Tox. 1: H304 May be fatal if swallowed and enters airways. (Bridging principle "Aerosols")



Version 04. Supersedes version: 03

Modified position	SECTION 2 been added: Hydrocarbons, C6-C7, isoalkanes, cyclics, < 5% n-hexane
	SECTION 2 been added: Hydrocarbons, C6, isoalkanes, <5% n-hexane
	SECTION 3 been added: Hydrocarbons, C6-C7, isoalkanes, cyclics, < 5% n-hexane
	SECTION 2 deleted: Hydrocarbons, C5-C7, n-alkanes, isoalkanes, <5% n-hexane
	SECTION 3 deleted: Hydrocarbons, C5-C7, n-alkanes, isoalkanes, <5% n-hexane
	SECTION 2 been added: The product is required to be labelled in accordance with regulation CLP.
	SECTION 2 been added: Contains no ingredients with endocrine-disrupting properties.
	SECTION 8 been added: In the event of occupational exposure limits being exceeded or of inadequate ventilation: wear appropriate respiratory protection.
	SECTION 8 deleted: Respiratory protection mask in the event of high concentrations.
	SECTION 11 been added: none
	SECTION 11 been added: Does not contain a relevant substance that meets the classification criteria.
	SECTION 12 been added: Does not contain a relevant substance that meets the classification criteria.

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