

Safety Data Sheet

according to Regulation (EC) No 1907/2006

783(E) ACR

Revision date: 01.09.2022

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

1.1. Product identifier

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UFI: 61CS-F1A8-TK3J-8WCJ

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

Use of the substance/mixture

Eases assembly and disassembly of metal parts by protecting against galling, self-welding, corrosion, and galvanic attack. Do not use on oxygen systems.

Uses advised against

No information available.

1.3. Details of the supplier of the safety data sheet

Company name:	Chesterton International GmbH	
Street:	Am Lenzenfleck 23	
Place:	D-85737 Ismaning GERMANY	
Telephone:	+49 89 99 65 46 - 0	Telefax: +49 89 99 65 46 - 50
e-mail:	eu-sds@chesterton.com	
e-mail (Contact person):	eu-sds@chesterton.com	
Internet:	www.chesterton.com	
Responsible Department:	eu-sds@chesterton.com	

1.4. Emergency telephone number:

+49(0) 551 - 1 92 40 (GIZ-Nord, 24h)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Eye Irrit. 2; H319
Skin Sens. 1; H317

Full text of hazard statements: see SECTION 16.

2.2. Label elements

Regulation (EC) No 1272/2008

Hazard components for labelling

Sulfonic acids, petroleum, calcium salts
Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts
5,5'-dithiodi-1,3,4-thiadiazole-2(3H)-thione
Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts

Signal word: Warning

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Pictograms:



Hazard statements

- H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.

Precautionary statements

- P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P264 Wash hands thoroughly after handling.
P272 Contaminated work clothing should not be allowed out of the workplace.
P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P302+P352 IF ON SKIN: Wash with plenty of water.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
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.
P362+P364 Take off contaminated clothing and wash it before reuse.
P501 Dispose of contents/container to an appropriate recycling or disposal facility.

Special labelling of certain mixtures

- EUH212 Warning! Hazardous respirable dust may be formed when used. Do not breathe dust.

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

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Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (Regulation (EC) No 1272/2008)			
13463-67-7	titanium dioxide			5 - < 10 %
	236-675-5	022-006-00-2	01-2119489379-17	
	Carc. 2; H351			
61789-86-4	Sulfonic acids, petroleum, calcium salts			5 - < 10 %
	263-093-9		01-2119488992-18	
	Skin Sens. 1; H317			
68584-23-6	Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts			5 - < 10 %
	271-529-4		01-2119492627-25	
	Skin Sens. 1B; H317			
72676-55-2	5,5'-dithiodi-1,3,4-thiadiazole-2(3H)-thione			1 - < 5 %
	276-763-0		01-2120119820-64	
	Skin Sens. 1, Aquatic Chronic 2; H317 H411			
26264-06-2	Calcium dodecylbenzenesulphonate			1 - < 5 %
	247-557-8		01-2120122335-68	
	Acute Tox. 4, Skin Irrit. 2, Eye Dam. 1, Aquatic Chronic 4; H302 H315 H318 H413			
70024-69-0	Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts			< 1 %
	274-263-7		01-2119492616-28	
	Skin Sens. 1; H317			

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

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
		Specific Conc. Limits, M-factors and ATE	
13463-67-7	236-675-5	titanium dioxide	5 - < 10 %
		oral: LD50 = > 2000 mg/kg	
61789-86-4	263-093-9	Sulfonic acids, petroleum, calcium salts	5 - < 10 %
		dermal: LD50 = > 5000 mg/kg; oral: LD50 = > 16000 mg/kg	
68584-23-6	271-529-4	Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts	5 - < 10 %
		dermal: LD50 = > 5000 mg/kg; oral: LD50 = > 16000 mg/kg	
72676-55-2	276-763-0	5,5'-dithiodi-1,3,4-thiadiazole-2(3H)-thione	1 - < 5 %
		dermal: LD50 = > 2000 mg/kg; oral: LD50 = 5680 mg/kg	
26264-06-2	247-557-8	Calcium dodecylbenzenesulphonate	1 - < 5 %
		dermal: LD50 = 2000 mg/kg; oral: LD50 = 1300 mg/kg	
70024-69-0	274-263-7	Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts	< 1 %
		dermal: LD50 = > 4000 mg/kg; oral: LD50 = > 16000 mg/kg	

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SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Remove victim out of the danger area. When in doubt or if symptoms are observed, get medical advice.

After inhalation

Remove casualty to fresh air and keep warm and at rest. If breathing is irregular or stopped, administer artificial respiration.

After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Remove contaminated, saturated clothing immediately. In case of skin irritation, consult a physician.

After contact with eyes

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

Remove contact lenses, if present and easy to do. Continue rinsing.

After ingestion

If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Let 1 glass of water be drunken in little sips (dilution effect).

Do NOT induce vomiting.

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

No information available.

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

First Aid, decontamination, treatment of symptoms.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

- alcohol resistant foam
- Water spray jet
- Carbon dioxide (CO₂)
- Dry extinguishing powder

Unsuitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

In case of fire may be liberated:

- Carbon dioxide (CO₂),
- Carbon monoxide,
- Nitrogen oxides (NO_x)

5.3. Advice for firefighters

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Co-ordinate fire-fighting measures to the fire surroundings.
In case of fire: Wear self-contained breathing apparatus.

Special protective equipment for firefighters: Protective clothing.

Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.
Dispose of waste according to applicable legislation.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

Remove persons to safety.
Provide adequate ventilation.
Clear spills immediately.
Avoid contact with skin, eyes and clothes.
Safe handling: see section 7
Personal protection equipment: see section 8

6.2. Environmental precautions

Do not allow to enter into surface water or drains. Cover drains.

6.3. Methods and material for containment and cleaning up

For containment

Take up mechanically, placing in appropriate containers for disposal. Take up dust-free and set down dust-free.

6.4. Reference to other sections

Safe handling: see section 7
Personal protection equipment: see section 8
Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Personal protection equipment: see section 8
When using do not eat, drink, smoke, sniff.
Wash hands before breaks and after work.
Do not put any product-impregnated cleaning rags into your trouser pockets.

Advice on protection against fire and explosion

Measures to prevent fire: Usual measures for fire prevention.

Advice on general occupational hygiene

Avoid contact with skin, eyes and clothes. Use protective skin cream before handling the product. Remove contaminated, saturated clothing immediately. When using do not eat, drink, smoke, sniff. Wash hands and face before breaks and after work and take a shower if necessary.

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Further information on handling

Wash hands before breaks and after work. Used working clothes should not be worn outside the work area.
Street clothing should be stored separately from work clothing.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Store in a cool dry place. Keep container tightly closed.
Keep/Store only in original container.
Protect from direct sunlight.
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Protect against: Frost
storage temperature: <45°C

Hints on joint storage

Keep away from food, drink and animal feedingstuffs.

7.3. Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

CAS No	Substance	ppm	mg/m ³	fib/cm ³	Category	Origin
7782-42-5	Graphite (all forms except fibres) (Respirable Fraction)	-	2		TWA (8 h)	
14807-96-6	Talc, respirable dust	-	0.8		TWA (8 h)	
13463-67-7	Titanium dioxide, respirable dust	-	4		TWA (8 h)	

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DNEL/DMEL values

CAS No	Substance	Exposure route	Effect	Value
14807-96-6	Talc			
Worker DNEL, long-term		inhalation	systemic	2,16 mg/m ³
Worker DNEL, acute		inhalation	systemic	2,16 mg/m ³
Worker DNEL, long-term		inhalation	local	3,6 mg/m ³
Worker DNEL, acute		inhalation	local	3,6 mg/m ³
Worker DNEL, long-term		dermal	systemic	43,2 mg/kg bw/day
Worker DNEL, long-term		dermal	local	4,54 mg/cm ²
Consumer DNEL, long-term		inhalation	systemic	1,08 mg/m ³
Consumer DNEL, acute		inhalation	systemic	1,08 mg/m ³
Consumer DNEL, long-term		inhalation	local	1,8 mg/m ³
Consumer DNEL, acute		inhalation	local	1,8 mg/m ³
Consumer DNEL, long-term		dermal	systemic	21,6 mg/kg bw/day
Consumer DNEL, long-term		dermal	local	2,27 mg/cm ²
Consumer DNEL, long-term		oral	systemic	160 mg/kg bw/day
Consumer DNEL, acute		oral	systemic	160 mg/kg bw/day
13463-67-7	titanium dioxide			
Worker DNEL, long-term		inhalation	local	1,25 mg/m ³
Consumer DNEL, long-term		oral	systemic	700 mg/kg bw/day
7782-42-5	Graphite			
Worker DNEL, long-term		inhalation	systemic	1,2 mg/m ³
Worker DNEL, long-term		inhalation	local	1,2 mg/m ³
Consumer DNEL, long-term		inhalation	local	0,3 mg/m ³
Consumer DNEL, long-term		oral	systemic	813 mg/kg bw/day
61789-86-4	Sulfonic acids, petroleum, calcium salts			
Worker DNEL, long-term		inhalation	systemic	11,75 mg/m ³
Worker DNEL, long-term		dermal	systemic	3,33 mg/kg bw/day
Worker DNEL, long-term		dermal	local	1,03 mg/cm ²
Consumer DNEL, long-term		inhalation	systemic	2,9 mg/m ³
Consumer DNEL, long-term		dermal	systemic	1,667 mg/kg bw/day
Consumer DNEL, long-term		dermal	local	0,513 mg/cm ²

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Consumer DNEL, long-term	oral	systemic	0,833 mg/kg bw/day
68584-23-6	Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts		
Worker DNEL, long-term	dermal	local	1,03 mg/cm ²
Consumer DNEL, long-term	inhalation	systemic	2,9 mg/m ³
Worker DNEL, long-term	inhalation	systemic	11,75 mg/m ³
Worker DNEL, long-term	dermal	systemic	3,33 mg/kg bw/day
Worker DNEL, long-term	inhalation	local	1,03 mg/m ³
Consumer DNEL, long-term	inhalation	local	2,9 mg/m ³
Consumer DNEL, long-term	dermal	systemic	1,667 mg/kg bw/day
Consumer DNEL, long-term	dermal	local	0,513 mg/cm ²
Consumer DNEL, long-term	oral	systemic	0,833 mg/kg bw/day
72676-55-2	5,5'-dithiodi-1,3,4-thiadiazole-2(3H)-thione		
Worker DNEL, long-term	inhalation	systemic	3,29 mg/m ³
Worker DNEL, long-term	dermal	systemic	0,93 mg/kg bw/day
Consumer DNEL, long-term	inhalation	systemic	0,56 mg/m ³
Consumer DNEL, long-term	dermal	systemic	0,33 mg/kg bw/day
Consumer DNEL, long-term	oral	systemic	0,17 mg/kg bw/day
26264-06-2	Calcium dodecylbenzenesulphonate		
Worker DNEL, long-term	inhalation	systemic	52 mg/m ³
Worker DNEL, acute	inhalation	systemic	52 mg/m ³
Worker DNEL, long-term	inhalation	local	52 mg/m ³
Worker DNEL, acute	inhalation	local	52 mg/m ³
Worker DNEL, long-term	dermal	systemic	57,2 mg/kg bw/day
Worker DNEL, acute	dermal	systemic	80 mg/kg bw/day
Worker DNEL, long-term	dermal	local	1,57 mg/cm ²
Worker DNEL, acute	dermal	local	1,57 mg/cm ²
Consumer DNEL, long-term	inhalation	systemic	26 mg/m ³
Consumer DNEL, acute	inhalation	systemic	26 mg/m ³
Consumer DNEL, long-term	inhalation	local	26 mg/m ³
Consumer DNEL, acute	inhalation	local	26 mg/m ³
Consumer DNEL, long-term	dermal	systemic	28,6 mg/kg bw/day

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Consumer DNEL, acute	dermal	systemic	40 mg/kg bw/day
Consumer DNEL, long-term	dermal	local	0,787 mg/cm ²
Consumer DNEL, acute	dermal	local	0,787 mg/cm ²
Consumer DNEL, long-term	oral	systemic	13 mg/kg bw/day
Consumer DNEL, acute	oral	systemic	13 mg/kg bw/day
70024-69-0	Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts		
Worker DNEL, long-term	inhalation	systemic	11,75 mg/m ³
Worker DNEL, long-term	dermal	systemic	3,33 mg/kg bw/day
Worker DNEL, long-term	dermal	local	1,03 mg/cm ²
Consumer DNEL, long-term	inhalation	systemic	2,9 mg/m ³
Consumer DNEL, long-term	dermal	systemic	1,667 mg/kg bw/day
Consumer DNEL, long-term	dermal	local	0,513 mg/cm ²
Consumer DNEL, long-term	oral	systemic	0,833 mg/kg bw/day

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PNEC values

CAS No	Substance	
Environmental compartment		Value
14807-96-6	Talc	
Freshwater		597,97 mg/l
Freshwater (intermittent releases)		597,97 mg/l
Marine water		141,26 mg/l
Freshwater sediment		31,33 mg/kg
Marine sediment		3,13 mg/kg
61789-86-4	Sulfonic acids, petroleum, calcium salts	
Freshwater		1 mg/l
Freshwater (intermittent releases)		10 mg/l
Marine water		1 mg/l
Freshwater sediment		226000000 mg/kg
Marine sediment		226000000 mg/kg
Secondary poisoning		16,667 mg/kg
Micro-organisms in sewage treatment plants (STP)		1000 mg/l
Soil		271000000 mg/kg
68584-23-6	Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts	
Freshwater		1 mg/l
Freshwater (intermittent releases)		10 mg/l
Marine water		1 mg/l
Freshwater sediment		226000000 mg/kg
Marine sediment		226000000 mg/kg
Secondary poisoning		16,667 mg/kg
Micro-organisms in sewage treatment plants (STP)		1000 mg/l
Soil		271000000 mg/kg
72676-55-2	5,5'-dithiodi-1,3,4-thiadiazole-2(3H)-thione	
Freshwater		0,003 mg/l
Freshwater (intermittent releases)		0,003 mg/l
Marine water		0 mg/l
Freshwater sediment		0,039 mg/kg
Marine sediment		0,004 mg/kg
Micro-organisms in sewage treatment plants (STP)		0,31 mg/l
Soil		0,006 mg/kg
26264-06-2	Calcium dodecylbenzenesulphonate	

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Freshwater	0,28 mg/l
Freshwater (intermittent releases)	0,654 mg/l
Marine water	0,458 mg/l
Freshwater sediment	27,5 mg/kg
Marine sediment	2,75 mg/kg
Secondary poisoning	20 mg/kg
Micro-organisms in sewage treatment plants (STP)	50 mg/l
Soil	25 mg/kg
70024-69-0	Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts
Freshwater	1 mg/l
Freshwater (intermittent releases)	10 mg/l
Marine water	1 mg/l
Freshwater sediment	226000000 mg/kg
Marine sediment	226000000 mg/kg
Secondary poisoning	16,667 mg/kg
Micro-organisms in sewage treatment plants (STP)	1000 mg/l
Soil	271000000 mg/kg

8.2. Exposure controls

Appropriate engineering controls

Provide adequate ventilation as well as local exhaust at critical locations.

Individual protection measures, such as personal protective equipment

Eye/face protection

Suitable eye protection:

Eye glasses with side protection
goggles

Hand protection

Tested protective gloves must be worn: EN ISO 374

NBR (Nitrile rubber),

Wearing time with permanent contact: Thickness of the glove material: $\geq 0,4$ mm, Breakthrough time: >480 min

Wearing time with occasional contact (splashes): Thickness of the glove material: $\geq 0,1$ mm, Breakthrough time: > 30 min

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Breakthrough times and swelling properties of the material must be taken into consideration.

Skin protection

Wear suitable protective clothing.

Respiratory protection

Usually no personal respiratory protection necessary.

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Wear breathing apparatus if exposed to vapours/dusts/aerosols.

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

Filtering device (full mask or mouthpiece) with filter: A-P2

Thermal hazards

No data available

Environmental exposure controls

Do not allow to enter into surface water or drains.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	Paste	
Colour:	grey	
		Test method
Melting point/freezing point:		No data available
Boiling point or initial boiling point and boiling range:		No data available
Flammability		
Solid/liquid:		No data available
Gas:		No data available
Lower explosion limits:		No data available
Upper explosion limits:		No data available
Flash point:		> 190 °C
Auto-ignition temperature:		No data available
Decomposition temperature:		No data available
pH-Value:		No data available
Water solubility:		Immiscible
Solubility in other solvents		
not determined		
Partition coefficient n-octanol/water:		not applicable
Vapour pressure:		No data available
Density (at 25 °C):		1,33 g/cm ³ DIN 12808
Relative vapour density:		>1 (Air = 1)

9.2. Other information

Information with regard to physical hazard classes

Explosive properties

not explosive according to EU A.14

Self-ignition temperature

Solid:

No data available

Gas:

No data available

Oxidizing properties

Not oxidising.

Other safety characteristics

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Evaporation rate:	<1 (Ether = 1)
Sublimation point:	No data available
Softening point:	No data available
Pour point:	No data available
Viscosity / dynamic: (at 25 °C)	1-3 Mio mPa·s

Further Information

No information available.

SECTION 10: Stability and reactivity

10.1. Reactivity

No information available.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

No known hazardous reactions.

10.4. Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

10.5. Incompatible materials

Oxidising agent, strong

10.6. Hazardous decomposition products

No known hazardous decomposition products.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Toxicokinetics, metabolism and distribution

Toxicological data are not available. The statement is derived from the properties of the single components.

Acute toxicity

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

ATEmix calculated

ATE (oral) 68965,5 mg/kg

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CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
13463-67-7	titanium dioxide				
	oral	LD50 > 2000 mg/kg	Rat	Study report (1996)	OECD Guideline 401
61789-86-4	Sulfonic acids, petroleum, calcium salts				
	oral	LD50 > 16000 mg/kg	Rat	Study report (1981)	other: Section 772 .112-21 CFR 40
	dermal	LD50 > 5000 mg/kg	Rabbit	Study report (1981)	OECD Guideline 402
68584-23-6	Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts				
	oral	LD50 > 16000 mg/kg	Rat	Study report (1981)	other: Section 772 .112-21 CFR 40
	dermal	LD50 > 5000 mg/kg	Rabbit	Study report (1981)	OECD Guideline 402
72676-55-2	5,5'-dithiodi-1,3,4-thiadiazole-2(3H)-thione				
	oral	LD50 5680 mg/kg	Rat	Study report (1983)	OECD Guideline 401
	dermal	LD50 > 2000 mg/kg	Rabbit	Study report (1983)	OECD Guideline 402
26264-06-2	Calcium dodecylbenzenesulphonate				
	oral	LD50 1300 mg/kg	Rat	Product Safety labs (1998)	other: Defined oral LD50. Adapted from a
	dermal	LD50 2000 mg/kg	Rabbit	Study report (1972)	Method: other: Test material was applied
70024-69-0	Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts				
	oral	LD50 > 16000 mg/kg	Rat	Study report (1981)	other: Section 772 .112-21 CFR 40
	dermal	LD50 > 4000 mg/kg	Rabbit	Study report (1986)	other: 40 CFR, Section 163.81-2, Federal

Irritation and corrosivity

Causes serious eye irritation.

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

non-irritant.

Sensitising effects

May cause an allergic skin reaction. (Sulfonic acids, petroleum, calcium salts; Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts; 5,5'-dithiodi-1,3,4-thiadiazole-2(3H)-thione; Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts)

not sensitising.

Carcinogenic/mutagenic/toxic effects for reproduction

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Based on available data, the classification criteria are not met.
No information available.

STOT-single exposure

Based on available data, the classification criteria are not met.
No information available.

STOT-repeated exposure

Based on available data, the classification criteria are not met.
No information available.

Aspiration hazard

Based on available data, the classification criteria are not met.
No information available.

Specific effects in experiment on an animal

No information available.

Additional information on tests

No information available.

Practical experience

No information available.

11.2. Information on other hazards

Endocrine disrupting properties

No data available

Other information

No information available.

Further information

No information available.

SECTION 12: Ecological information

12.1. Toxicity

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CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
13463-67-7	titanium dioxide					
	Acute fish toxicity	LC50 > 100 mg/l	96 h	Carassius auratus	REACH Registration Dossier	OECD Guideline 203
	Acute algae toxicity	ErC50 > 50 mg/l	72 h	Raphidocelis subcapitata	REACH Registration Dossier	OECD Guideline 201
	Acute crustacea toxicity	EC50 > 100 mg/l	48 h	Artemia salina	REACH Registration Dossier	OECD Guideline 202
	Fish toxicity	NOEC >= 80 mg/l	6 d	Danio rerio	REACH Registration Dossier	OECD TG 210
	Algae toxicity	NOEC >= 1 mg/l	32 d	Synedra ulna, Scenedesmus quadricauda, Stigeocloni	Environ. Tox. Chem. 31, 2414-2422 (2012)	In this study, the authors report the re
	Crustacea toxicity	NOEC > 1 mg/l	10 d	Chironomus riparius	REACH Registration Dossier	other: OECD Guideline 219
	Acute bacteria toxicity	(EC50 > 1000 mg/l)	3 h	activated sludge, domestic	REACH Registration Dossier	OECD Guideline 209
61789-86-4	Sulfonic acids, petroleum, calcium salts					
	Acute fish toxicity	LL50 > 10000 mg/l	96 h	Cyprinodon variegatus	Study report (1986)	OECD Guideline 203
	Acute algae toxicity	ErC50 > 1000 mg/l	72 h	Raphidocelis subcapitata	Study report (1994)	EPA OTS 797.1050
	Acute crustacea toxicity	EC50 > 1000 mg/l	48 h	Daphnia magna	Study report (1993)	EPA OTS 797.1300
	Acute bacteria toxicity	(EC50 > 10000 mg/l)	3 h	activated sludge of a predominantly domestic sewage	Study report (1994)	OECD Guideline 209
68584-23-6	Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts					
	Acute algae toxicity	ErC50 > 1000 mg/l	72 h	Raphidocelis subcapitata	Study report (1994)	EPA OTS 797.1050
	Acute bacteria toxicity	(EC50 > 10000 mg/l)	3 h	activated sludge of a predominantly domestic sewage	Study report (1994)	OECD Guideline 209
72676-55-2	5,5'-dithiodi-1,3,4-thiadiazole-2(3H)-thione					
	Acute fish toxicity	LC50 > 454 mg/l	96 h	Pimephales promelas	REACH Registration Dossier	OECD Guideline 203

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	Acute algae toxicity	ErC50	20 mg/l	72 h	Pseudokirchneriella subcapitata	REACH Registration Dossier	OECD Guideline 201
	Acute crustacea toxicity	EC50	3 mg/l	48 h	Daphnia magna	REACH Registration Dossier	OECD Guideline 202
26264-06-2	Calcium dodecylbenzenesulphonate						
	Acute fish toxicity	LC50 mg/l	1,74	96 h	Fishes species	http://epa.gov/oppt/exposure/pubs/episui	other: QSAR
	Acute algae toxicity	ErC50 mg/l	65,4	72 h	Raphidocelis subcapitata	REACH Registration Dossier	OECD Guideline 201
	Acute crustacea toxicity	EC50 mg/l	1,276	48 h	Daphnid species	REACH Registration Dossier	other: QSAR model
	Fish toxicity	NOEC mg/l	0,23	30 d	Fish species	REACH Registration Dossier	other: QSAR
	Crustacea toxicity	NOEC mg/l	1,65	21 d	Daphnia magna	REACH Registration Dossier	OECD Guideline 211
70024-69-0	Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts						
	Acute fish toxicity	LL50 mg/l	> 10000	96 h	Cyprinodon variegatus	REACH Registration Dossier	OECD Guideline 203
	Acute algae toxicity	ErC50 mg/l	> 1000	72 h	Raphidocelis subcapitata	REACH Registration Dossier	EPA OTS 797.1050
	Acute crustacea toxicity	EC50 mg/l	> 1000	48 h	Daphnia magna	REACH Registration Dossier	EPA OTS 797.1300
	Acute bacteria toxicity	(EC50 mg/l)	> 10000	3 h	activated sludge of a predominantly domestic sewage	REACH Registration Dossier	OECD Guideline 209

12.2. Persistence and degradability

No information available.

12.3. Bioaccumulative potential

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Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
61789-86-4	Sulfonic acids, petroleum, calcium salts	> 4,46
68584-23-6	Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts	> 4,46
72676-55-2	5,5'-dithiodi-1,3,4-thiadiazole-2(3H)-thione	1,46
26264-06-2	Calcium dodecylbenzenesulphonate	4,77
70024-69-0	Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts	18,05

BCF

CAS No	Chemical name	BCF	Species	Source
13463-67-7	titanium dioxide	> 0,47 - < 3,19	Artemia salina	REACH Registration D
26264-06-2	Calcium dodecylbenzenesulphonate	70,79	QSAR model	REACH Registration D

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

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

12.6. Endocrine disrupting properties

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

12.7. Other adverse effects

No information available.

Further information

Do not allow uncontrolled discharge of product into the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process. Dispose of waste according to applicable legislation.

Contaminated packaging

Non-contaminated packages may be recycled. Packing which cannot be properly cleaned must be disposed of. Dispose of waste according to applicable legislation.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number or ID number:

No dangerous good in sense of this transport regulation.

14.2. UN proper shipping name:

No dangerous good in sense of this transport regulation.

14.3. Transport hazard class(es):

No dangerous good in sense of this transport regulation.

14.4. Packing group:

No dangerous good in sense of this transport regulation.

Inland waterways transport (ADN)

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14.1. UN number or ID number:	No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.
14.4. Packing group:	No dangerous good in sense of this transport regulation.

Marine transport (IMDG)

14.1. UN number or ID number:	No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.
14.4. Packing group:	No dangerous good in sense of this transport regulation.

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number:	No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.
14.4. Packing group:	No dangerous good in sense of this transport regulation.

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS:	No
Danger releasing substance:	No dangerous good in sense of this transport regulation.

14.6. Special precautions for user

No information available.

14.7. Maritime transport in bulk according to IMO instruments

No information available.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 75

National regulatory information

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

15.2. Chemical safety assessment

For the following substances of this mixture a chemical safety assessment has been carried out:

titanium dioxide

Sulfonic acids, petroleum, calcium salts

Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts

5,5'-dithiodi-1,3,4-thiadiazole-2(3H)-thione

Calcium dodecylbenzenesulphonate

Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts

SECTION 16: Other information

Changes

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This data sheet contains changes from the previous version in section(s): 2,4,5,6,7,8,9,11,12,15,16.
No information available.

Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route
(European Agreement concerning the International Carriage of Dangerous Goods by Road)
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer
(Regulations Concerning the International Transport of Dangerous Goods by Rail)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
ICAO: International Civil Aviation Organization
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)
CAS: Chemical Abstracts Service (division of the American Chemical Society)
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
CLP: Regulation on Classification, Labelling and Packaging of Substances and Mixtures,
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
EC50: Effect concentration, 50 percent
DNEL: Derived No Effect Level
PNEC: Predicted No Effect Concentration
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative

Classification for mixtures and used evaluation method according to Regulation (EC) No 1272/2008 [CLP]

Classification	Classification procedure
Eye Irrit. 2; H319	Calculation method
Skin Sens. 1; H317	Calculation method

Relevant H and EUH statements (number and full text)

H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H351	Suspected of causing cancer.
H411	Toxic to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.
EUH212	Warning! Hazardous respirable dust may be formed when used. Do not breathe dust.

Further Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

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