

Page 1 of 16
Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
Revision date / version: 17.01.2020 / 0012
Replacing version dated / version: 27.08.2019 / 0011
Valid from: 17.01.2020
PDF print date: 20.01.2020
Power Care Tabs

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

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

1.1 Product identifier

Power Care Tabs

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

Relevant identified uses of the substance or mixture:

Cleaner

Sector of use [SU]:

SU21 - Consumer uses: Private households (=general public = consumers)

Chemical product category [PC]:

PC35 - Washing and cleaning products

PC37 - Water treatment chemicals

Process category [PROC]:

PROC 2 - Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions

PROC 8a - Transfer of substance or mixture (charging and discharging) at non-dedicated facilities

Article Categories [AC]:

AC99 - Not required.

Environmental Release Category [ERC]:

ERC 8a - Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor)

ERC10a - Widespread use of articles with low release (outdoor)

Uses advised against:

No information available at present.

1.3 Details of the supplier of the safety data sheet

GB

Dometic Germany GmbH
Hollefeldstr. 63
48282 Emsdetten
Tel.: +49 (0) 2572 879 0
Fax: +49 (0) 2572 879 300

Dometic UK Ltd Dometic House
The Brewery
GB- DT11 9LS Blandford St Mary, Dorset
Tel.: +44 (0) 0844 626 0133
Fax: +44 (0) 0844 626 0143

Qualified person's e-mail address: info@chemical-check.de, k.schnurbusch@chemical-check.de Please DO NOT use for requesting Safety Data Sheets.

1.4 Emergency telephone number

Emergency information services / official advisory body:

IRL

National Poisons Information Centre, Beaumont Hospital, Dublin 9, Ireland, Tel.:
+353 (0)1 809 2166 (Public Poisons Info Line, 8am-10pm, 7 days a week)
+353 (0)1 809 2566 (Info for Healthcare Professionals ONLY, 24 h, 7 days a week)

Telephone number of the company in case of emergencies:

+49 (0) 700 / 24 112 112 (CCWA)

SECTION 2: Hazards identification

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
 Revision date / version: 17.01.2020 / 0012
 Replacing version dated / version: 27.08.2019 / 0011
 Valid from: 17.01.2020
 PDF print date: 20.01.2020
 Power Care Tabs

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) 1272/2008 (CLP)

Hazard class	Hazard category	Hazard statement
Acute Tox.	4	H302-Harmful if swallowed.
Eye Dam.	1	H318-Causes serious eye damage.
Aquatic Acute	1	H400-Very toxic to aquatic life.
Aquatic Chronic	3	H412-Harmful to aquatic life with long lasting effects.

2.2 Label elements

Labeling according to Regulation (EC) 1272/2008 (CLP)



Danger

H302-Harmful if swallowed. H318-Causes serious eye damage. H410-Very toxic to aquatic life with long lasting effects.

P101-If medical advice is needed, have product container or label at hand. P102-Keep out of reach of children.
 P273-Avoid release to the environment. P280-Wear eye protection.
 P305+P351+P338-IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310-Immediately call a POISON CENTER / doctor.
 P501-Dispose of contents / container to an approved waste disposal facility.

Bronopol (INN)

2.3 Other hazards

The mixture does not contain any vPvB substance (vPvB = very persistent, very bioaccumulative) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %).
 The mixture does not contain any PBT substance (PBT = persistent, bioaccumulative, toxic) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %).
 May form explosible dust-air mixture if dispersed.

SECTION 3: Composition/information on ingredients

3.1 Substance

n.a.

3.2 Mixture

Bronopol (INN)	
Registration number (REACH)	---
Index	603-085-00-8
EINECS, ELINCS, NLP	200-143-0
CAS	52-51-7
content %	5-<10

Page 3 of 16
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
 Revision date / version: 17.01.2020 / 0012
 Replacing version dated / version: 27.08.2019 / 0011
 Valid from: 17.01.2020
 PDF print date: 20.01.2020
 Power Care Tabs

Classification according to Regulation (EC) 1272/2008 (CLP)	Acute Tox. 3, H301 Acute Tox. 4, H312 Skin Irrit. 2, H315 Eye Dam. 1, H318 Acute Tox. 3, H331 STOT SE 3, H335 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 2, H411
Tridec-2-enenitrile	
Registration number (REACH)	---
Index	---
EINECS, ELINCS, NLP	245-142-6
CAS	22629-49-8
content %	0,001-<0,025
Classification according to Regulation (EC) 1272/2008 (CLP)	Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=10)

For the text of the H-phrases and classification codes (GHS/CLP), see Section 16.

The substances named in this section are given with their actual, appropriate classification!

For substances that are listed in appendix VI, table 3.1 of the regulation (EC) no. 1272/2008 (CLP regulation) this means that all notes that may be given here for the named classification have been taken into account.

SECTION 4: First aid measures

4.1 Description of first aid measures

First-aiders should ensure they are protected!

Never pour anything into the mouth of an unconscious person!

Inhalation

Remove person from danger area.

Supply person with fresh air and consult doctor according to symptoms.

Skin contact

Remove polluted, soaked clothing immediately, wash thoroughly with plenty of water and soap, in case of irritation of the skin (flare), consult a doctor.

Eye contact

Remove contact lenses.

Wash thoroughly for several minutes using copious water. Seek medical help if necessary.

Ingestion

Rinse the mouth thoroughly with water.

Do not induce vomiting - give copious water to drink. Consult doctor immediately.

4.2 Most important symptoms and effects, both acute and delayed

If applicable delayed symptoms and effects can be found in section 11 and the absorption route in section 4.1.

On dust formation:

Irritation of the respiratory tract

Irritant to mucosa of the nose and throat

Coughing

In certain cases, the symptoms of poisoning may only appear after an extended period / after several hours.

4.3 Indication of any immediate medical attention and special treatment needed

Symptomatic treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Foam

Dry extinguisher

Water jet spray

Unsuitable extinguishing media

Page 4 of 16
Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
Revision date / version: 17.01.2020 / 0012
Replacing version dated / version: 27.08.2019 / 0011
Valid from: 17.01.2020
PDF print date: 20.01.2020
Power Care Tabs

CO2
High volume water jet

5.2 Special hazards arising from the substance or mixture

In case of fire the following can develop:

Oxides of carbon
Oxides of nitrogen
Toxic gases

5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes.
Protective respirator with independent air supply.
According to size of fire
Full protection, if necessary.
Dispose of contaminated extinction water according to official regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure sufficient supply of air.
Avoid build up of dust.
Avoid contact with eyes or skin.
Contact with water - danger of sliding.

6.2 Environmental precautions

If leakage occurs, dam up.
Resolve leaks if this possible without risk.
Prevent surface and ground-water infiltration, as well as ground penetration.
Prevent from entering drainage system.
If accidental entry into drainage system occurs, inform responsible authorities.

6.3 Methods and material for containment and cleaning up

Pick up mechanically and dispose of according to Section 13.

6.4 Reference to other sections

For personal protective equipment see Section 8 and for disposal instructions see Section 13.

SECTION 7: Handling and storage

In addition to information given in this section, relevant information can also be found in section 8 and 6.1.

7.1 Precautions for safe handling

7.1.1 General recommendations

Avoid build up of dust.
Ensure good ventilation.
Avoid contact with eyes.
Avoid long lasting or intensive contact with skin.
Eating, drinking, smoking, as well as food-storage, is prohibited in work-room.
Observe directions on label and instructions for use.
Use working methods according to operating instructions.

7.1.2 Notes on general hygiene measures at the workplace

General hygiene measures for the handling of chemicals are applicable.
Wash hands before breaks and at end of work.
Keep away from food, drink and animal feedingstuffs.
Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

7.2 Conditions for safe storage, including any incompatibilities

Keep out of access to unauthorised individuals.
Store product closed and only in original packing.
Not to be stored in gangways or stair wells.
Protect against moisture and store closed.

7.3 Specific end use(s)

No information available at present.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

GB	Chemical Name	Propane-1,2-diol	Content %:			
	WEL-TWA: 150 ppm (474 mg/m ³) (total, vapour and particulates), 10 mg/m ³ (particulates)	WEL-STEL: ---	---			
	Monitoring procedures:	- Draeger - Alcohol 100/a (CH 29 701)				
	BMGV: ---		Other information: ---			
IRL	Chemical Name	Propane-1,2-diol	Content %:			
	OELV-8h: 150 ppm (470 mg/m ³) (total (vapour and particulates), 10 mg/m ³ (particulates)	OELV-15min: ---	---			
	Monitoring procedures:	- Draeger - Alcohol 100/a (CH 29 701)				
	BLV: ---		Other information: ---			
GB	Chemical Name	Quartz	Content %:			
	WEL-TWA: 0,1 mg/m ³ (silica, respirable, crystalline)	WEL-STEL: ---	---			
	Monitoring procedures:	MDHS 101 (Crystalline silica in respirable airborne dust – Direct on-filter analysis by infrared spectroscopy and X-ray diffraction) - 2005 - EU project - BC/CEN/ENTR/000/2002-16 card 52-1 (2004) - INSHT MTA/MA-036 (Determination of Quartz in Air – Membrane Filter Method/ Xray Diffraction) - 2000, 2004 - NIOSH 7500 (Crystalline Silica, by XRD (filter redeposition)) - 2003 - EU project - BC/CEN/ENTR/000/2002-16 card 52-6 (2004) - NIOSH 7602 (Crystalline Silica, by IR (KBr pellet)) - 2003 - NIOSH 7603 (Quartz in coal mine dust, by IR (redeposition)) - 2003 - OSHA ID-142 (Quartz and Cristobalite in Workplace Atmospheres) - 1996				
	BMGV: ---		Other information: ---			
IRL	Chemical Name	Quartz	Content %:			
	OELV-8h: 0,1 mg/m ³ (respirable dust)	OELV-15min: ---	---			
	Monitoring procedures:	MDHS 101 (Crystalline silica in respirable airborne dust – Direct on-filter analysis by infrared spectroscopy and X-ray diffraction) - 2005 - EU project - BC/CEN/ENTR/000/2002-16 card 52-1 (2004) - INSHT MTA/MA-036 (Determination of Quartz in Air – Membrane Filter Method/ Xray Diffraction) - 2000, 2004 - NIOSH 7500 (Crystalline Silica, by XRD (filter redeposition)) - 2003 - EU project - BC/CEN/ENTR/000/2002-16 card 52-6 (2004) - NIOSH 7602 (Crystalline Silica, by IR (KBr pellet)) - 2003 - NIOSH 7603 (Quartz in coal mine dust, by IR (redeposition)) - 2003 - OSHA ID-142 (Quartz and Cristobalite in Workplace Atmospheres) - 1996				
	BLV: ---		Other information: ---			
GB	Chemical Name	general dust limit	Content %:			
	WEL-TWA: 10 mg/m ³ (inhal. dust), 4 mg/m ³ (respir. dust)	WEL-STEL: ---	---			
	Monitoring procedures:	---				
	BMGV: ---		Other information: ---			
IRL	Chemical Name	general dust limit	Content %:			
	OELV-8h: 10 mg/m ³ (total inhal. dust), 4 mg/m ³ (respir. dust)	OELV-15min: ---	---			
	Monitoring procedures:	---				
	BLV: ---		Other information: ---			

Bronopol (INN)

Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
	Environment - freshwater		PNEC	0,01	mg/l	

Page 6 of 16
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
 Revision date / version: 17.01.2020 / 0012
 Replacing version dated / version: 27.08.2019 / 0011
 Valid from: 17.01.2020
 PDF print date: 20.01.2020
 Power Care Tabs

	Environment - marine		PNEC	0,001	mg/kg	
	Environment - sewage treatment plant		PNEC	0,43	mg/l	
	Environment - sediment, freshwater		PNEC	0,041	mg/kg dw	
	Environment - sediment, marine		PNEC	0,00328	mg/kg dw	
	Environment - soil		PNEC	0,5	mg/kg dw	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	0,6	mg/m3	
Consumer	Human - inhalation	Long term, local effects	DNEL	0,6	mg/m3	
Consumer	Human - dermal	Long term, systemic effects	DNEL	0,7	mg/kg bw/day	
Consumer	Human - oral	Long term, systemic effects	DNEL	0,18	mg/kg bw/day	
Consumer	Human - dermal	Long term, local effects	DNEL	0,004	mg/cm2	
Consumer	Human - dermal	Short term, local effects	DNEL	0,004	mg/cm2	
Consumer	Human - dermal	Short term, systemic effects	DNEL	2,1	mg/kg bw/day	
Consumer	Human - inhalation	Short term, local effects	DNEL	0,6	mg/m3	
Consumer	Human - oral	Short term, systemic effects	DNEL	0,5	mg/kg bw/day	
Workers / employees	Human - inhalation	Short term, systemic effects	DNEL	10,5	mg/m3	
Workers / employees	Human - inhalation	Short term, local effects	DNEL	2,5	mg/m3	
Workers / employees	Human - dermal	Short term, systemic effects	DNEL	6	mg/kg bw/day	
Workers / employees	Human - dermal	Long term, local effects	DNEL	0,008	mg/cm2	
Workers / employees	Human - dermal	Short term, local effects	DNEL	0,008	mg/cm2	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	3,5	mg/m3	
Workers / employees	Human - inhalation	Long term, local effects	DNEL	2,5	mg/m3	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	2	mg/kg bw/day	

Propane-1,2-diol

Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
	Environment - freshwater		PNEC	260	mg/l	
	Environment - marine		PNEC	26	mg/l	
	Environment - sewage treatment plant		PNEC	20000	mg/l	
	Environment - sediment, freshwater		PNEC	572	mg/kg	
	Environment - sediment, marine		PNEC	57,2	mg/kg	
	Environment - soil		PNEC	50	mg/kg	
	Environment - water, sporadic (intermittent) release		PNEC	183	mg/l	
Consumer	Human - dermal	Long term, systemic effects	DNEL	213	mg/kg	

Page 7 of 16
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
 Revision date / version: 17.01.2020 / 0012
 Replacing version dated / version: 27.08.2019 / 0011
 Valid from: 17.01.2020
 PDF print date: 20.01.2020
 Power Care Tabs

Consumer	Human - inhalation	Long term, systemic effects	DNEL	50	mg/m ³	
Consumer	Human - oral	Long term, systemic effects	DNEL	85	mg/kg	
Consumer	Human - inhalation	Long term, local effects	DNEL	10	mg/m ³	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	168	mg/m ³	
Workers / employees	Human - inhalation	Long term, local effects	DNEL	10	mg/m ³	

WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period) EH40. AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany).
 (8) = Inhalable fraction (2017/164/EU, 2017/2398/EU). (9) = Respirable fraction (2017/164/EU, 2017/2398/EU). | WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period).
 (8) = Inhalable fraction (2017/164/EU, 2017/2398/EU). (9) = Respirable fraction (2017/164/EU, 2017/2398/EU). (10) = Short-term exposure limit value in relation to a reference period of 1 minute (2017/164/EU). | BMGV = Biological monitoring guidance value EH40. BGW = "Biologischer Grenzwert" (biological limit value, Germany) | Other information: Sen = Capable of causing occupational asthma. Sk = Can be absorbed through skin. Carc = Capable of causing cancer and/or heritable genetic damage.
 ** = The exposure limit for this substance is repealed through the TRGS 900 (Germany) of January 2006 with the goal of revision.

OELV-8h = Occupational Exposure Limit Value (8-hour reference period). (IFV) = Inhalable Fraction and Vapour. (I) = Inhalable Fraction. (R) = Respirable Fraction.
 (8) = Inhalable fraction (2017/164/EU, 2017/2398/EU). (9) = Respirable fraction (2017/164/EU, 2017/2398/EU). | OELV-15min = Occupational Exposure Limit Value (15-minute reference period). (IFV) = Inhalable Fraction and Vapour. (I) = Inhalable Fraction. (R) = Respirable Fraction.
 (8) = Inhalable fraction (2017/164/EU, 2017/2398/EU). (9) = Respirable fraction (2017/164/EU, 2017/2398/EU). (10) = Short-term exposure limit value in relation to a reference period of 1 minute (2017/164/EU). | BLV = Biological limit value | Other information: Carc1A, Carc1B = carcinogenic substance, Cat. 1A or 1B. Muta1A, Muta1B = mutagenic substance, Cat. 1A or 1B. Repr1A, Repr1B = Substances known to be toxic for reproduction, Cat. 1A or 1B. Sk = can be absorbed through skin. Asphx = asphyxiant. Sen = Respiratory sensitizer. BOELV = Binding Occupational Exposure Limit Values. IOELV = Indicative Occupational Exposure Limit Values.

8.2 Exposure controls

8.2.1 Appropriate engineering controls

Ensure good ventilation. This can be achieved by local suction or general air extraction.
 If this is insufficient to maintain the concentration under the WEL or AGW values, suitable breathing protection should be worn.
 Applies only if maximum permissible exposure values are listed here.
 Suitable assessment methods for reviewing the effectiveness of protection measures adopted include metrological and non-metrological investigative techniques.
 These are specified by e.g. BS EN 14042.
 BS EN 14042 "Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents".

8.2.2 Individual protection measures, such as personal protective equipment

General hygiene measures for the handling of chemicals are applicable.
 Wash hands before breaks and at end of work.
 Keep away from food, drink and animal feedingstuffs.
 Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

Eye/face protection:
 Tight fitting protective goggles with side protection (EN 166).

Skin protection - Hand protection:
 Chemical resistant protective gloves (EN 374).
 If applicable
 Protective nitrile gloves (EN 374).
 Minimum layer thickness in mm:
 >= 0,4
 Permeation time (penetration time) in minutes:

Page 8 of 16
Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
Revision date / version: 17.01.2020 / 0012
Replacing version dated / version: 27.08.2019 / 0011
Valid from: 17.01.2020
PDF print date: 20.01.2020
Power Care Tabs

>= 480

The breakthrough times determined in accordance with EN 16523-1 were not obtained under practical conditions.
The recommended maximum wearing time is 50% of breakthrough time.
Protective PVC gloves (EN 374)
Protective hand cream recommended.

Skin protection - Other:

Protective working garments (e.g. safety shoes EN ISO 20345, long-sleeved protective working garments).

Respiratory protection:

If OES or MEL is exceeded.

Breathing mask with fine-dust filter (EN 143), code colour white.

If applicable, filter P2 (EN 143), code colour white

Observe wearing time limitations for respiratory protection equipment.

Thermal hazards:

Not applicable

Additional information on hand protection - No tests have been performed.

In the case of mixtures, the selection has been made according to the knowledge available and the information about the contents.

Selection of materials derived from glove manufacturer's indications.

Final selection of glove material must be made taking the breakthrough times, permeation rates and degradation into account.

Selection of a suitable glove depends not only on the material but also on other quality characteristics and varies from manufacturer to manufacturer.

In the case of mixtures, the resistance of glove materials cannot be predicted and must therefore be tested before use.

The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

8.2.3 Environmental exposure controls

No information available at present.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state:	Solid, Tabs
Colour:	Blue
Odour:	Perfumed
Odour threshold:	Not determined
pH-value:	5-6 (10 g/l, 20°C)
Melting point/freezing point:	Not determined
Initial boiling point and boiling range:	Not determined
Flash point:	n.a.
Evaporation rate:	n.a.
Flammability (solid, gas):	Not determined
Lower explosive limit:	n.a.
Upper explosive limit:	n.a.
Vapour pressure:	n.a.
Vapour density (air = 1):	n.a.
Density:	Not determined
Bulk density:	~1000 kg/m ³ (20°C)
Solubility(ies):	Not determined
Water solubility:	partially
Partition coefficient (n-octanol/water):	Not determined
Auto-ignition temperature:	No
Decomposition temperature:	Not determined
Viscosity:	n.a.
Explosive properties:	Product is not explosive.
Oxidising properties:	No

9.2 Other information

Miscibility:	Not determined
Fat solubility / solvent:	Not determined
Conductivity:	Not determined

Page 9 of 16
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
 Revision date / version: 17.01.2020 / 0012
 Replacing version dated / version: 27.08.2019 / 0011
 Valid from: 17.01.2020
 PDF print date: 20.01.2020
 Power Care Tabs

Surface tension: Not determined
 Solvents content: Not determined

SECTION 10: Stability and reactivity

10.1 Reactivity

The product has not been tested.

10.2 Chemical stability

Stable with proper storage and handling.

10.3 Possibility of hazardous reactions

No dangerous reactions are known.

10.4 Conditions to avoid

Heating

10.5 Incompatible materials

Bases

Oxidizing agents

Aluminium

Zinc

Light metals

10.6 Hazardous decomposition products

No decomposition when used as directed.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Possibly more information on health effects, see Section 2.1 (classification).

Power Care Tabs

Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	ATE	1973	mg/kg			calculated value
Acute toxicity, by dermal route:						n.d.a.
Acute toxicity, by inhalation:						n.d.a.
Skin corrosion/irritation:						n.d.a.
Serious eye damage/irritation:						n.d.a.
Respiratory or skin sensitisation:						n.d.a.
Germ cell mutagenicity:						n.d.a.
Carcinogenicity:						n.d.a.
Reproductive toxicity:						n.d.a.
Specific target organ toxicity - single exposure (STOT-SE):						n.d.a.
Specific target organ toxicity - repeated exposure (STOT-RE):						n.d.a.
Aspiration hazard:						n.d.a.
Symptoms:						n.d.a.

Bronopol (INN)

Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	193-211	mg/kg	Rat	OECD 401 (Acute Oral Toxicity)	
Acute toxicity, by dermal route:	LD50	> 2000	mg/kg	Rat	OECD 402 (Acute Dermal Toxicity)	Does not conform with EU classification.
Acute toxicity, by inhalation:	LC50	>0,588	mg/l/4h	Rat		Aerosol

Page 11 of 16
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
 Revision date / version: 17.01.2020 / 0012
 Replacing version dated / version: 27.08.2019 / 0011
 Valid from: 17.01.2020
 PDF print date: 20.01.2020
 Power Care Tabs

12.1. Toxicity to daphnia:							n.d.a.
12.1. Toxicity to algae:							n.d.a.
12.2. Persistence and degradability:							The surfactant(s) contained in this mixture complies (complies) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.
12.3. Bioaccumulative potential:							n.d.a.
12.4. Mobility in soil:							n.d.a.
12.5. Results of PBT and vPvB assessment							n.d.a.
12.6. Other adverse effects:							n.d.a.

Bronopol (INN)							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.2. Persistence and degradability:	DOC		50	%		OECD 302 B (Inherent Biodegradability - Zahn-Wellens/EMPA Test)	Biodegradable
12.3. Bioaccumulative potential:	Log Pow		0,18				Not accepted due to the log Pow - value.
12.1. Toxicity to fish:	LC50	96h	41,2	mg/l	Oncorhynchus mykiss		
12.1. Toxicity to fish:	LC50	49d	39,1	mg/l	Oncorhynchus mykiss	OECD 210 (Fish, Early-Life Stage Toxicity Test)	
12.1. Toxicity to daphnia:	NOEC/NOEL	21d	0,27	mg/l	Daphnia magna	OECD 211 (Daphnia magna Reproduction Test)	

Page 12 of 16
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
 Revision date / version: 17.01.2020 / 0012
 Replacing version dated / version: 27.08.2019 / 0011
 Valid from: 17.01.2020
 PDF print date: 20.01.2020
 Power Care Tabs

12.1. Toxicity to daphnia:	EC50	48h	1,4	mg/l	Daphnia magna		
12.1. Toxicity to algae:	EC50	72h	0,4 - 2,8	mg/l	Pseudokirchnerie lla subcapitata		
Toxicity to bacteria:	EC20	3h	2	mg/l	Pseudomonas putida	OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation))	
Other organisms:	LC50	14d	>500	mg/l	Eisenia foetida	OECD 207 (Earthworm, Acute Toxicity Tests)	
Other information:	COD		600	mg/g			
Other information:	Koc		5				

Tridec-2-enenitrile							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:			>0,01-0,1	mg/l			
12.1. Toxicity to daphnia:	EC50	48h	0,02	mg/l			
12.1. Toxicity to daphnia:			>0,01-0,1	mg/l			
12.1. Toxicity to algae:			>0,01-0,1	mg/l			
12.2. Persistence and degradability:		28d	87	%		OECD 301 F (Ready Biodegradability - Manometric Respirometry Test)	Readily biodegradable
12.3. Bioaccumulative potential:	Log Pow		5,04				High

Propane-1,2-diol							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.3. Bioaccumulative potential:	Log Pow		-1,07			OECD 107 (Partition Coefficient (n-octanol/water) - Shake Flask Method)	
12.1. Toxicity to fish:	LC50	96h	40613	mg/l	Oncorhynchus mykiss	OECD 203 (Fish, Acute Toxicity Test)	
12.1. Toxicity to daphnia:	LC50	48h	18340	mg/l	Ceriodaphnia spec.	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
12.1. Toxicity to daphnia:	NOEC/NOEL	7d	13020	mg/l	Ceriodaphnia spec.		
12.1. Toxicity to algae:	EC50	48h	19000	mg/l	Pseudokirchnerie lla subcapitata	OECD 201 (Alga, Growth Inhibition Test)	

Page 13 of 16
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
 Revision date / version: 17.01.2020 / 0012
 Replacing version dated / version: 27.08.2019 / 0011
 Valid from: 17.01.2020
 PDF print date: 20.01.2020
 Power Care Tabs

12.2. Persistence and degradability:		28d	81,7	%		OECD 301 F (Ready Biodegradability - Manometric Respirometry Test)	Readily biodegradable
12.3. Bioaccumulative potential:	BCF		0,09				valued
Toxicity to bacteria:	NOEC/NOEL	18h	>20000	mg/l	Pseudomonas putida		
Other information:	COD		1585	mg/g			

Quartz							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.2. Persistence and degradability:							Not relevant for inorganic substances.
12.3. Bioaccumulative potential:							Not to be expected
12.4. Mobility in soil:							Low
12.5. Results of PBT and vPvB assessment							No PBT substance, No vPvB substance

SECTION 13: Disposal considerations

13.1 Waste treatment methods

For the substance / mixture / residual amounts

EC disposal code no.:
 The waste codes are recommendations based on the scheduled use of this product.
 Owing to the user's specific conditions for use and disposal, other waste codes may be allocated under certain circumstances. (2014/955/EU)
 07 06 99 wastes not otherwise specified
 20 01 29 detergents containing hazardous substances
 Recommendation:
 Sewage disposal shall be discouraged.
 Pay attention to local and national official regulations.
 E.g. suitable incineration plant.
 E.g. dispose at suitable refuse site.

For contaminated packing material

Pay attention to local and national official regulations.
 Empty container completely.
 Untaminated packaging can be recycled.
 Dispose of packaging that cannot be cleaned in the same manner as the substance.

SECTION 14: Transport information

General statements

14.1. UN number: 3077
Transport by road/by rail (ADR/RID)
 14.2. UN proper shipping name:
 UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (BRNOPOL)
 14.3. Transport hazard class(es): 9
 14.4. Packing group: III
 Classification code: M7
 LQ: 5 kg
 14.5. Environmental hazards: environmentally hazardous
 Tunnel restriction code: -



Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
 Revision date / version: 17.01.2020 / 0012
 Replacing version dated / version: 27.08.2019 / 0011
 Valid from: 17.01.2020
 PDF print date: 20.01.2020
 Power Care Tabs

Transport by sea (IMDG-code)

14.2. UN proper shipping name:
 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (BRONOPOL)
 14.3. Transport hazard class(es): 9
 14.4. Packing group: III
 EmS: F-A, S-F
 Marine Pollutant: Yes
 14.5. Environmental hazards: environmentally hazardous



Transport by air (IATA)

14.2. UN proper shipping name:
 Environmentally hazardous substance, solid, n.o.s. (BRONOPOL)
 14.3. Transport hazard class(es): 9
 14.4. Packing group: III
 14.5. Environmental hazards: environmentally hazardous



14.6. Special precautions for user

Persons employed in transporting dangerous goods must be trained.
 All persons involved in transporting must observe safety regulations.
 Precautions must be taken to prevent damage.

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Freighted as packaged goods rather than in bulk, therefore not applicable.
 Minimum amount regulations have not been taken into account.
 Danger code and packing code on request.
 Comply with special provisions.

SECTION 15: Regulatory information

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

Observe restrictions:
 Comply with trade association/occupational health regulations.

Directive 2012/18/EU ("Seveso III"), Annex I, Part 1 - The following categories apply to this product (others may also need to be considered according to storage, handling etc.):

Hazard categories	Notes to Annex I	Qualifying quantity (tonnes) of dangerous substances as referred to in Article 3(10) for the application of - Lower-tier requirements	Qualifying quantity (tonnes) of dangerous substances as referred to in Article 3(10) for the application of - Upper-tier requirements
E1		100	200

The Notes to Annex 1 of Directive 2012/18/EU, in particular those named in the tables here and notes 1-6, must be taken into account when assigning categories and qualifying quantities.

REGULATION (EC) No 648/2004

less than 5 %
 non-ionic surfactants

perfumes
 COUMARIN
 LIMONENE
 2-BROMO-2-NITROPROPANE-1,3-DIOL

15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

SECTION 16: Other information

Revised sections: 2, 3, 4, 11, 12
 Employee training in handling dangerous goods is required.
 These details refer to the product as it is delivered.

Page 15 of 16
Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
Revision date / version: 17.01.2020 / 0012
Replacing version dated / version: 27.08.2019 / 0011
Valid from: 17.01.2020
PDF print date: 20.01.2020
Power Care Tabs

Employee instruction/training in handling hazardous materials is required.

Classification and processes used to derive the classification of the mixture in accordance with the ordinance (EG) 1272/2008 (CLP):

Classification in accordance with regulation (EC) No. 1272/2008 (CLP)	Evaluation method used
Acute Tox. 4, H302	Classification according to calculation procedure.
Eye Dam. 1, H318	Classification according to calculation procedure.
Aquatic Acute 1, H400	Classification according to calculation procedure.
Aquatic Chronic 3, H412	Classification according to calculation procedure.

The following phrases represent the posted Hazard Class and Risk Category Code (GHS/CLP) of the product and the constituents (specified in Section 2 and 3).

H301 Toxic if swallowed.
H312 Harmful in contact with skin.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H331 Toxic if inhaled.
H335 May cause respiratory irritation.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H411 Toxic to aquatic life with long lasting effects.

Acute Tox. — Acute toxicity - oral
Eye Dam. — Serious eye damage
Aquatic Acute — Hazardous to the aquatic environment - acute
Aquatic Chronic — Hazardous to the aquatic environment - chronic
Acute Tox. — Acute toxicity - dermal
Skin Irrit. — Skin irritation
Acute Tox. — Acute toxicity - inhalation
STOT SE — Specific target organ toxicity - single exposure - respiratory tract irritation

Any abbreviations and acronyms used in this document:

acc., acc. to according, according to
ADR Accord européen relatif au transport international des marchandises Dangereuses par Route (= European Agreement concerning the International Carriage of Dangerous Goods by Road)
AOX Adsorbable organic halogen compounds
approx. approximately
Art., Art. no. Article number
ASTM ASTM International (American Society for Testing and Materials)
BAM Bundesanstalt für Materialforschung und -prüfung (Federal Institute for Materials Research and Testing, Germany)
BAuA Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health and Safety, Germany)
BSEF The International Bromine Council
bw body weight
CAS Chemical Abstracts Service
CLP Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures)
CMR carcinogenic, mutagenic, reproductive toxic
DMEL Derived Minimum Effect Level
DNEL Derived No Effect Level
dw dry weight
e.g. for example (abbreviation of Latin 'exempli gratia'), for instance
EC European Community
ECHA European Chemicals Agency
EEC European Economic Community
EINECS European Inventory of Existing Commercial Chemical Substances

Page 16 of 16
Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
Revision date / version: 17.01.2020 / 0012
Replacing version dated / version: 27.08.2019 / 0011
Valid from: 17.01.2020
PDF print date: 20.01.2020
Power Care Tabs

ELINCS European List of Notified Chemical Substances
EN European Norms
EPA United States Environmental Protection Agency (United States of America)
etc. et cetera
EU European Union
EVAL Ethylene-vinyl alcohol copolymer
Fax. Fax number
gen. general
GHS Globally Harmonized System of Classification and Labelling of Chemicals
GWP Global warming potential
IARC International Agency for Research on Cancer
IATA International Air Transport Association
IBC (Code) International Bulk Chemical (Code)
IMDG-code International Maritime Code for Dangerous Goods
incl. including, inclusive
IUCLID International Uniform Chemical Information Database
LQ Limited Quantities
MARPOL International Convention for the Prevention of Marine Pollution from Ships
n.a. not applicable
n.av. not available
n.c. not checked
n.d.a. no data available
OECD Organisation for Economic Co-operation and Development
org. organic
PBT persistent, bioaccumulative and toxic
PE Polyethylene
PNEC Predicted No Effect Concentration
ppm parts per million
PVC Polyvinylchloride
REACH Registration, Evaluation, Authorisation and Restriction of Chemicals (REGULATION (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals)
REACH-IT List-No. 9xx-xxx-x No. is automatically assigned, e.g. to pre-registrations without a CAS No. or other numerical identifier. List Numbers do not have any legal significance, rather they are purely technical identifiers for processing a submission via REACH-IT.
RID Règlement concernant le transport International ferroviaire de marchandises Dangereuses (= Regulation concerning the International Carriage of Dangerous Goods by Rail)
SVHC Substances of Very High Concern
Tel. Telephone
UN RTDG United Nations Recommendations on the Transport of Dangerous Goods
VOC Volatile organic compounds
vPvB very persistent and very bioaccumulative
wwt wet weight

The statements made here should describe the product with regard to the necessary safety precautions - they are not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge. No responsibility.

These statements were made by:

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