

## Bryta 5in1 Dishwasher Tabs

Revision: 2015-04-05

Version: 02.0

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

#### 1.1 Product identifier

**Trade name:** Bryta 5in1 Dishwasher Tabs

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

**Identified uses:**

For professional use only.

AISE-P202 - Dishwash product. Automatic process

**Uses advised against:** Uses other than those identified are not recommended

#### 1.3 Details of the supplier of the safety data sheet

Diversey Europe Operations BV, Maarssenbroeksedijk 2, 3542DN Utrecht, The Netherlands

#### Contact details

Diversey Hygiene Sales Limited  
Jamestown Road, Finglas, Dublin 11, Ireland  
Tel: 01 8081808 (9am - 5pm Mon-Fri)  
Email: dublin.orders@sealedair.com

#### 1.4 Emergency telephone number

Tel: 01 8081808 (9am - 5pm Mon-Fri)  
After hours: National Poisons Centre, Beaumont Hospital, Dublin 9  
Tel: 01 8379964

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

The product has been classified and labelled in accordance with Regulation (EC) No 1272/2008.

Eye Irrit. 2 (H319)

#### Classification in accordance with Directive 1999/45/EC and corresponding national legislation

**Indication of danger**

Xi - Irritant

**Risk phrases:**

R41 - Risk of serious damage to eyes.

#### 2.2 Label elements



**Signal word:** Warning

**Hazard statements:**

H319 - Causes serious eye irritation.

#### 2.3 Other hazards

No other hazards known. The product does not meet the criteria for PBT or vPvB in accordance with Regulation (EC) No 1907/2006, Annex XIII.

### SECTION 3: Composition/information on ingredients

## Bryta 5in1 Dishwasher Tabs

## 3.2 Mixtures

Ingredient(s)	EC number	CAS number	REACH number	Classification	Classification (1999/45/EC)	Notes	Weight percent
sodium carbonate	207-838-8	497-19-8	01-2119485498-19	Eye Irrit. 2 (H319)	Xi;R36		30-50
disodium disilicate	237-623-4	13870-28-5	01-2119485031-47	Eye Dam. 1 (H318)	Xi;R41		10-20
sodium percarbonate	239-707-6	15630-89-4	01-2119457268-30	Ox. Sol. 2 (H272) Acute Tox. 4 (H302) Eye Dam. 1 (H318)	O;R8 Xn;R22 Xi;R41		10-20
alkyl alcohol alkoxyolate	Polymer*	69227-21-0	[4]	Skin Irrit. 2 (H315) Aquatic Chronic 3 (H412)	Xi;R38		3-10
zinc di(acetate) dihydrate	209-170-2	557-34-6	No data available	Acute Tox. 4 (H302) Acute Tox. 4 (H312) Acute Tox. 4 (H332) STOT SE 3 (H335) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319)	Xn;R20/21/22 Xi;R36/37/38		0.1-1

\* Polymer.

For the full text of the R, H and EUH phrases mentioned in this Section, see Section 16.

Workplace exposure limit(s), if available, are listed in subsection 8.1.

[1] Exempted: ionic mixture. See Regulation (EC) No 1907/2006, Annex V, paragraph 3 and 4. This salt is potentially present, based on calculation, and included for classification and labelling purposes only. Each starting material of the ionic mixture is registered, as required.

[2] Exempted: included in Annex IV of Regulation (EC) No 1907/2006.

[3] Exempted: Annex V of Regulation (EC) No 1907/2006.

[4] Exempted: polymer. See Article 2(9) of Regulation (EC) No 1907/2006.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### Inhalation

Get medical attention or advice if you feel unwell.

#### Skin contact:

Wash skin with plenty of lukewarm, gently flowing water. If skin irritation occurs: Get medical advice or attention.

#### Eye contact:

Immediately rinse eyes cautiously with lukewarm water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation occurs and persists, get medical attention.

#### Ingestion:

Immediately drink 1 glass of water. Get medical attention or advice if you feel unwell.

#### Self-protection of first aider:

Consider personal protective equipment as indicated in subsection 8.2.

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

#### Inhalation:

No known effects or symptoms in normal use.

#### Skin contact:

No known effects or symptoms in normal use.

#### Eye contact:

Causes severe irritation.

#### Ingestion:

No known effects or symptoms in normal use.

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

No information available on clinical testing and medical monitoring. Specific toxicological information on substances, if available, can be found in section 11.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Carbon dioxide. Dry powder. Water spray jet. Fight larger fires with water spray jet or alcohol-resistant foam.

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

No special hazards known.

### 5.3 Advice for firefighters

As in any fire, wear self contained breathing apparatus and suitable protective clothing including gloves and eye/face protection.

## SECTION 6: Accidental release measures

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

No special measures required.

### 6.2 Environmental precautions

Do not allow to enter drainage system, surface or ground water.

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

Collect mechanically.

### 6.4 Reference to other sections

For personal protective equipment see subsection 8.2. For disposal considerations see section 13.

## SECTION 7: Handling and storage

## Bryta 5in1 Dishwasher Tabs

**7.1 Precautions for safe handling****Measures to prevent fire and explosions:**

No special precautions required.

**Measures required to protect the environment:**

For environmental exposure controls see subsection 8.2.

**Advices on general occupational hygiene:**

Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Do not mix with other products unless advised by Sealed Air. Wash hands before breaks and at the end of workday. Wash face, hands and any exposed skin thoroughly after handling. Take off immediately all contaminated clothing. Use personal protective equipment as required. Use only with adequate ventilation.

**7.2 Conditions for safe storage, including any incompatibilities**

Store in accordance with local and national regulations. Keep only in original container. Store in a closed container.

For conditions to avoid see subsection 10.4. For incompatible materials see subsection 10.5.

**7.3 Specific end use(s)**

No specific advice for end use available.

**SECTION 8: Exposure controls/personal protection****8.1 Control parameters****Workplace exposure limits**

Air limit values, if available:

Biological limit values, if available:

Recommended monitoring procedures, if available:

Additional exposure limits under the conditions of use, if available:

**DNEL/DMEL and PNEC values****Human exposure**

DNEL oral exposure - Consumer (mg/kg bw)

Ingredient(s)	Short term - Local effects	Short term - Systemic effects	Long term - Local effects	Long term - Systemic effects
sodium carbonate	-	-	-	-
disodium disilicate	No data available	No data available	No data available	No data available
sodium percarbonate	-	-	-	-
alkyl alcohol alkoxylate	No data available	No data available	No data available	No data available
zinc di(acetate) dihydrate	No data available	No data available	No data available	No data available

DNEL dermal exposure - Worker

Ingredient(s)	Short term - Local effects	Short term - Systemic effects (mg/kg bw)	Long term - Local effects	Long term - Systemic effects (mg/kg bw)
sodium carbonate	No data available	-	No data available	-
disodium disilicate	No data available	No data available	No data available	No data available
sodium percarbonate	12.8 mg/cm <sup>2</sup> skin	-	12.8 mg/cm <sup>2</sup> skin	-
alkyl alcohol alkoxylate	No data available	No data available	No data available	No data available
zinc di(acetate) dihydrate	No data available	No data available	No data available	No data available

DNEL dermal exposure - Consumer

Ingredient(s)	Short term - Local effects	Short term - Systemic effects (mg/kg bw)	Long term - Local effects	Long term - Systemic effects (mg/kg bw)
sodium carbonate	No data available	-	No data available	-
disodium disilicate	No data available	No data available	No data available	No data available
sodium percarbonate	6.4 mg/cm <sup>2</sup> skin	-	6.4 mg/cm <sup>2</sup> skin	-
alkyl alcohol alkoxylate	No data available	No data available	No data available	No data available
zinc di(acetate) dihydrate	No data available	No data available	No data available	No data available

DNEL inhalatory exposure - Worker (mg/m<sup>3</sup>)

Ingredient(s)	Short term - Local effects	Short term - Systemic effects	Long term - Local effects	Long term - Systemic effects
sodium carbonate	-	-	10	-
disodium disilicate	No data available	No data available	No data available	No data available
sodium percarbonate	-	-	5	-
alkyl alcohol alkoxylate	No data available	No data available	No data available	No data available
zinc di(acetate) dihydrate	No data available	No data available	No data available	No data available

DNEL inhalatory exposure - Consumer (mg/m<sup>3</sup>)

Ingredient(s)	Short term - Local effects	Short term - Systemic effects	Long term - Local effects	Long term - Systemic effects
sodium carbonate	10	-	-	-

## Bryta 5in1 Dishwasher Tabs

disodium disilicate	No data available	No data available	No data available	No data available
sodium percarbonate	-	-	-	-
alkyl alcohol alkoxyate	No data available	No data available	No data available	No data available
zinc di(acetate) dihydrate	No data available	No data available	No data available	No data available

**Environmental exposure**

Environmental exposure - PNEC

Ingredient(s)	Surface water, fresh (mg/l)	Surface water, marine (mg/l)	Intermittent (mg/l)	Sewage treatment plant (mg/l)
sodium carbonate	-	-	-	-
disodium disilicate	No data available	No data available	No data available	No data available
sodium percarbonate	0.035	0.035	0.035	16.24
alkyl alcohol alkoxyate	No data available	No data available	No data available	No data available
zinc di(acetate) dihydrate	No data available	No data available	No data available	No data available

Environmental exposure - PNEC, continued

Ingredient(s)	Sediment, freshwater (mg/kg)	Sediment, marine (mg/kg)	Soil (mg/kg)	Air (mg/m <sup>3</sup> )
sodium carbonate	-	-	-	-
disodium disilicate	No data available	No data available	No data available	No data available
sodium percarbonate	-	-	-	-
alkyl alcohol alkoxyate	No data available	No data available	No data available	No data available
zinc di(acetate) dihydrate	No data available	No data available	No data available	No data available

**8.2 Exposure controls**

The following information applies for the uses indicated in subsection 1.2.

If available, please refer to the product information sheet for application and handling instructions.

Normal use conditions are assumed for this section.

Recommended safety measures for handling the undiluted product:

**Appropriate engineering controls:** No special requirements under normal use conditions.  
**Appropriate organisational controls:** Avoid direct contact and/or splashes where possible. Train personnel.

**Personal protective equipment**

**Eye / face protection:** No special requirements under normal use conditions.  
**Hand protection:** No special requirements under normal use conditions.  
**Body protection:** No special requirements under normal use conditions.  
**Respiratory protection:** No special requirements under normal use conditions.

**Environmental exposure controls:** No special requirements under normal use conditions.

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

Information in this section refers to the product, unless it is specifically stated that substance data is listed

**Method / remark**

**Physical State:** Solid  
**Appearance:** Tablets  
**Colour:** from White to Blue Red  
**Odour:** Product specific  
**Odour threshold:** Not applicable  
**pH:**  
**Dilution pH:** ≈ 11 (10%)  
**Melting point/freezing point (°C):** Not determined  
**Initial boiling point and boiling range (°C):** Not determined

Substance data, boiling point

Ingredient(s)	Value (°C)	Method	Atmospheric pressure (hPa)
sodium carbonate	1600	Method not given	1013
disodium disilicate	No data available		
sodium percarbonate	Product decomposes before boiling		
alkyl alcohol alkoxyate	No data available		
zinc di(acetate) dihydrate	No data available		

**Method / remark**

**Flash point (°C):** Not applicable.  
**Sustained combustion:** Not determined  
**Evaporation rate:** Not determined  
**Flammability (solid, gas):** Not determined  
**Upper/lower flammability limit (%):** Not determined

## Bryta 5in1 Dishwasher Tabs

Substance data, flammability or explosive limits, if available:

## Method / remark

**Vapour pressure:** Not determined

Substance data, vapour pressure

Ingredient(s)	Value (Pa)	Method	Temperature (°C)
sodium carbonate	Negligible		
disodium disilicate	No data available		
sodium percarbonate	Negligible		
alkyl alcohol alkoxyate	No data available		
zinc di(acetate) dihydrate	No data available		

## Method / remark

**Vapour density:** Not determined

**Relative density:** Not determined

**Solubility in / Miscibility with Water:** Soluble

Substance data, solubility in water

Ingredient(s)	Value (g/l)	Method	Temperature (°C)
sodium carbonate	210-215	Method not given	20
disodium disilicate	No data available		
sodium percarbonate	140	Method not given	20
alkyl alcohol alkoxyate	No data available		
zinc di(acetate) dihydrate	No data available		

Substance data, partition coefficient n-octanol/water (log Kow): see subsection 12.3

## Method / remark

**Autoignition temperature:** Not determined

**Decomposition temperature:** Not determined

**Viscosity:** Not determined

**Explosive properties:** Not explosive.

**Oxidising properties:** Not oxidising

## 9.2 Other information

**Surface tension (N/m):** Not determined

**Corrosion to metals:** Not applicable to solids or gases

Substance data, dissociation constant, if available:

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No reactivity hazards known under normal storage and use conditions.

### 10.2 Chemical stability

Stable under normal storage and use conditions.

### 10.3 Possibility of hazardous reactions

No hazardous reactions known under normal storage and use conditions.

### 10.4 Conditions to avoid

None known under normal storage and use conditions.

### 10.5 Incompatible materials

Reacts with acids.

### 10.6 Hazardous decomposition products

None known under normal storage and use conditions.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

Mixture data:

**Relevant calculated ATE(s):**

ATE - Oral (mg/kg): >2000

ATE - Dermal (mg/kg): >2000

ATE - Inhalatory, mists (mg/l): >5

## Bryta 5in1 Dishwasher Tabs

**Eye irritation and corrosivity****Result:** Eye irritant 2**Method:** Weight of evidence

Substance data, where relevant and available, are listed below.

**Acute toxicity**

Acute oral toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)
sodium carbonate	LD <sub>50</sub>	2800	Rat	Method not given	-
disodium disilicate		No data available			
sodium percarbonate	LD <sub>50</sub>	1034	Rat	Method not given	
alkyl alcohol alkoxyate		No data available			
zinc di(acetate) dihydrate		No data available			

Acute dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)
sodium carbonate	LD <sub>50</sub>	> 2000	Rabbit	Method not given	-
disodium disilicate		No data available			
sodium percarbonate	LD <sub>50</sub>	> 2000	Rabbit	OECD 402 (EU B.3)	
alkyl alcohol alkoxyate		No data available			
zinc di(acetate) dihydrate		No data available			

Acute inhalative toxicity

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
sodium carbonate	LC <sub>50</sub>	2.3 (dust)	Rat	OECD 403 (EU B.2)	2
disodium disilicate		No data available			
sodium percarbonate		No data available			
alkyl alcohol alkoxyate		No data available			
zinc di(acetate) dihydrate		No data available			

**Irritation and corrosivity**

Skin irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
sodium carbonate	Not irritant	Rabbit	Method not given	
disodium disilicate	No data available			
sodium percarbonate	Not irritant	Rabbit	Method not given	
alkyl alcohol alkoxyate	No data available			
zinc di(acetate) dihydrate	No data available			

Eye irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
sodium carbonate	Irritant	Rabbit	Method not given	
disodium disilicate	No data available			
sodium percarbonate	Severe damage	Rabbit	EPA OPP 81-4	
alkyl alcohol alkoxyate	No data available			
zinc di(acetate) dihydrate	No data available			

Respiratory tract irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
sodium carbonate	No data available			
disodium disilicate	No data available			
sodium percarbonate	Irritating to respiratory tract	Mouse	Method not given	
alkyl alcohol alkoxyate	No data available			
zinc di(acetate) dihydrate	No data available			

**Sensitisation**

Sensitisation by skin contact

Ingredient(s)	Result	Species	Method	Exposure time (h)
sodium carbonate	Not sensitising		Method not given	-
disodium disilicate	No data available			
sodium percarbonate	Not sensitising	Guinea pig	OECD 406 (EU B.6) /	

## Bryta 5in1 Dishwasher Tabs

			Buehler test	
alkyl alcohol alkoxylate	No data available			
zinc di(acetate) dihydrate	No data available			

## Sensitisation by inhalation

Ingredient(s)	Result	Species	Method	Exposure time
sodium carbonate	No data available			-
disodium disilicate	No data available			
sodium percarbonate	No data available			
alkyl alcohol alkoxylate	No data available			
zinc di(acetate) dihydrate	No data available			

## CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

## Mutagenicity

Ingredient(s)	Result (in-vitro)	Method (in-vitro)	Result (in-vivo)	Method (in-vivo)
sodium carbonate	No data available		No data available	
disodium disilicate	No data available		No data available	
sodium percarbonate	No data available		No data available	
alkyl alcohol alkoxylate	No data available		No data available	
zinc di(acetate) dihydrate	No data available		No data available	

## Carcinogenicity

Ingredient(s)	Effect
sodium carbonate	No evidence for carcinogenicity, weight-of-evidence
disodium disilicate	No data available
sodium percarbonate	No data available
alkyl alcohol alkoxylate	No data available
zinc di(acetate) dihydrate	No data available

## Toxicity for reproduction

Ingredient(s)	Endpoint	Specific effect	Value (mg/kg bw/d)	Species	Method	Exposure time	Remarks and other effects reported
sodium carbonate			No data available				
disodium disilicate			No data available				
sodium percarbonate			No data available				
alkyl alcohol alkoxylate			No data available				
zinc di(acetate) dihydrate			No data available				

## Repeated dose toxicity

## Sub-acute or sub-chronic oral toxicity

Ingredient(s)	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time (days)	Specific effects and organs affected
sodium carbonate		No data available			-	
disodium disilicate		No data available				
sodium percarbonate		No data available				
alkyl alcohol alkoxylate		No data available				
zinc di(acetate) dihydrate		No data available				

## Sub-chronic dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time (days)	Specific effects and organs affected
sodium carbonate		No data available			-	
disodium disilicate		No data available				
sodium percarbonate		No data available				
alkyl alcohol alkoxylate		No data available				
zinc di(acetate) dihydrate		No data available				

## Sub-chronic inhalation toxicity

Ingredient(s)	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time (days)	Specific effects and organs affected
sodium carbonate		No data available			-	
disodium disilicate		No data available				

## Bryta 5in1 Dishwasher Tabs

		available				
sodium percarbonate		No data available				
alkyl alcohol alkoxylate		No data available				
zinc di(acetate) dihydrate		No data available				

## Chronic toxicity

Ingredient(s)	Exposure route	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time	Specific effects and organs affected	Remark
sodium carbonate			No data available					
disodium disilicate			No data available					
sodium percarbonate			No data available					
alkyl alcohol alkoxylate			No data available					
zinc di(acetate) dihydrate			No data available					

## STOT-single exposure

Ingredient(s)	Affected organ(s)
sodium carbonate	No data available
disodium disilicate	No data available
sodium percarbonate	No data available
alkyl alcohol alkoxylate	No data available
zinc di(acetate) dihydrate	No data available

## STOT-repeated exposure

Ingredient(s)	Affected organ(s)
sodium carbonate	No data available
disodium disilicate	No data available
sodium percarbonate	No data available
alkyl alcohol alkoxylate	No data available
zinc di(acetate) dihydrate	No data available

## Aspiration hazard

Substances with an aspiration hazard (H304), if any, are listed in section 3. If relevant, see section 9 for dynamic viscosity and relative density of the product.

## Potential adverse health effects and symptoms

Effects and symptoms related to the product, if any, are listed in subsection 4.2.

## SECTION 12: Ecological information

### 12.1 Toxicity

No data is available on the mixture.

Substance data, where relevant and available, are listed below

#### Aquatic short-term toxicity

Aquatic short-term toxicity - fish

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
sodium carbonate	LC <sub>50</sub>	300	<i>Lepomis macrochirus</i>	Method not given	96
disodium disilicate		No data available			
sodium percarbonate	LC <sub>50</sub>	70.7	<i>Pimephales promelas</i>	Method not given	96
alkyl alcohol alkoxylate		No data available			
zinc di(acetate) dihydrate		No data available			

Aquatic short-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
sodium carbonate	EC <sub>50</sub>	265	<i>Daphnia magna Straus</i>	Method not given	96
disodium disilicate		No data available			
sodium percarbonate	EC <sub>50</sub>	4.9	<i>Daphnia pulex</i>	Method not given	48
alkyl alcohol alkoxylate		No data available			
zinc di(acetate) dihydrate		No data available			



## Bryta 5in1 Dishwasher Tabs

		available		
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## Aquatic short-term toxicity - algae

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
sodium carbonate		No data available			-
disodium disilicate		No data available			
sodium percarbonate		No data available			-
alkyl alcohol alkoxylate		No data available			
zinc di(acetate) dihydrate		No data available			

## Aquatic short-term toxicity - marine species

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (days)
sodium carbonate		No data available			-
disodium disilicate		No data available			
sodium percarbonate		No data available			-
alkyl alcohol alkoxylate		No data available			
zinc di(acetate) dihydrate		No data available			

## Impact on sewage plants - toxicity to bacteria

Ingredient(s)	Endpoint	Value (mg/l)	Inoculum	Method	Exposure time
sodium carbonate		No data available			
disodium disilicate		No data available			
sodium percarbonate	EC <sub>50</sub>	466	Activated sludge	OECD 209	0.5 hour(s)
alkyl alcohol alkoxylate		No data available			
zinc di(acetate) dihydrate		No data available			

## Aquatic long-term toxicity

## Aquatic long-term toxicity - fish

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
sodium carbonate		No data available				
disodium disilicate		No data available				
sodium percarbonate	NOEC	7.4	<i>Pimephales promelas</i>	Method not given	96 hour(s)	
alkyl alcohol alkoxylate		No data available				
zinc di(acetate) dihydrate		No data available				

## Aquatic long-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
sodium carbonate		No data available				
disodium disilicate		No data available				
sodium percarbonate	NOEC	2	<i>Daphnia pulex</i>	Method not given	48 hour(s)	
alkyl alcohol alkoxylate		No data available				
zinc di(acetate) dihydrate		No data available				

## Aquatic toxicity to other aquatic benthic organisms, including sediment-dwelling organisms, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw sediment)	Species	Method	Exposure time (days)	Effects observed
sodium carbonate		No data available			-	
disodium disilicate		No data available				
sodium percarbonate		No data available			-	
alkyl alcohol alkoxylate		No data available				

## Bryta 5in1 Dishwasher Tabs

		available				
zinc di(acetate) dihydrate		No data available				

**Terrestrial toxicity**

Terrestrial toxicity - soil invertebrates, including earthworms, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
sodium carbonate		No data available			-	
sodium percarbonate		No data available			-	

Terrestrial toxicity - plants, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
sodium carbonate		No data available			-	
sodium percarbonate		No data available			-	

Terrestrial toxicity - birds, if available:

Ingredient(s)	Endpoint	Value	Species	Method	Exposure time (days)	Effects observed
sodium carbonate		No data available			-	
sodium percarbonate		No data available			-	

Terrestrial toxicity - beneficial insects, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
sodium carbonate		No data available			-	
sodium percarbonate		No data available			-	

Terrestrial toxicity - soil bacteria, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
sodium carbonate		No data available			-	
sodium percarbonate		No data available			-	

**12.2 Persistence and degradability****Abiotic degradation**

Abiotic degradation - photodegradation in air, if available:

Ingredient(s)	Half-life time	Method	Evaluation	Remark
sodium percarbonate	NA	Method not given		

Abiotic degradation - hydrolysis, if available:

Ingredient(s)	Half-life time in fresh water	Method	Evaluation	Remark
sodium carbonate	No data available		Rapidly hydrolysible	
sodium percarbonate	< 1 day(s)	Method not given	Hydrolysible	

Abiotic degradation - other processes, if available:

**Biodegradation**

Ready biodegradability - aerobic conditions

Ingredient(s)	Inoculum	Analytical method	DT <sub>50</sub>	Method	Evaluation
sodium carbonate					Not applicable (inorganic substance)
disodium disilicate					No data available
sodium percarbonate					Not applicable (inorganic substance)
alkyl alcohol alkoxylate					No data available
zinc di(acetate) dihydrate					No data available

Ready biodegradability - anaerobic and marine conditions, if available:

Degradation in relevant environmental compartments, if available:

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.

## Bryta 5in1 Dishwasher Tabs

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**

Partition coefficient n-octanol/water (log Kow)

Ingredient(s)	Value	Method	Evaluation	Remark
sodium carbonate	No data available		No bioaccumulation expected	
disodium disilicate	No data available			
sodium percarbonate	No data available			
alkyl alcohol alkoxylate	No data available			
zinc di(acetate) dihydrate	No data available			

Bioconcentration factor (BCF)

Ingredient(s)	Value	Species	Method	Evaluation	Remark
sodium carbonate	No data available			No bioaccumulation expected	
disodium disilicate	No data available				
sodium percarbonate	No data available				
alkyl alcohol alkoxylate	No data available				
zinc di(acetate) dihydrate	No data available				

**12.4 Mobility in soil**

Adsorption/Desorption to soil or sediment

Ingredient(s)	Adsorption coefficient Log Koc	Desorption coefficient Log Koc(des)	Method	Soil/sediment type	Evaluation
sodium carbonate	No data available				Potential for mobility in soil, soluble in water
disodium disilicate	No data available				
sodium percarbonate	No data available				High potential for mobility in soil
alkyl alcohol alkoxylate	No data available				
zinc di(acetate) dihydrate	No data available				

**12.5 Results of PBT and vPvB assessment**

Substances that fulfill the criteria for PBT/vPvB, if any, are listed in section 3.

**12.6 Other adverse effects**

No other adverse effects known.

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

**Waste from residues / unused products:**

The concentrated contents or contaminated packaging should be disposed of by a certified handler or according to the site permit. Release of waste to sewers is discouraged. The cleaned packaging material is suitable for energy recovery or recycling in line with local legislation.

**European Waste Catalogue:**

20 01 29\* - detergents containing dangerous substances.

**Empty packaging**

**Recommendation:**

Dispose of observing national or local regulations.

**SECTION 14: Transport information****ADR, RID, ADN, IMO/IMDG, ICAO/IATA**

**14.1 UN number:** Non-dangerous goods

**14.2 UN proper shipping name:** Non-dangerous goods

**14.3 Transport hazard class(es):** Non-dangerous goods

**Class:** -

**14.4 Packing group:** Non-dangerous goods

**14.5 Environmental hazards:** Non-dangerous goods

**14.6 Special precautions for user:** Non-dangerous goods

**14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:** The product is not transported in bulk tankers.

**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

**Authorisations or restrictions (Regulation (EC) No 1907/2006, Title VII respectively Title VIII):** Not applicable.

**Ingredients according to EC Detergents Regulation 648/2004**

phosphates

>=30%

oxygen-based bleaching agents

5 - 15%

non-ionic surfactants, polycarboxylates

< 5%

## Bryta 5in1 Dishwasher Tabs

enzymes

**15.2 Chemical safety assessment**

A chemical safety assessment has not been carried out on the mixture

**SECTION 16: Other information**

*The information in this document is based on our best present knowledge. However, it does not constitute a guarantee for any specific product features and does not establish a legally binding contract*

**MSDS code:** MS1000742

**Version:** 02.0

**Revision:** 2015-04-05

**Reason for revision:**

Overall design adjusted in accordance with Amendment 453/2010, Annex II of Regulation (EC) No 1907/2006, This data sheet contains changes from the previous version in section(s):, 3, 8

**Classification procedure**

The classification of the mixture is in general based on calculation methods using substance data, as required by Regulation (EC) No 1272/2008. If for certain classifications data on the mixture is available or for example bridging principles or weight of evidence can be used for classification, this will be indicated in the relevant sections of the Safety Data Sheet. See section 9 for physical chemical properties, section 11 for toxicological information and section 12 for ecological information.

**Full text of the R, H and EUH phrases mentioned in section 3:**

- H272 - May intensify fire; oxidiser.
- H302 - Harmful if swallowed.
- H312 - Harmful in contact with skin.
- H315 - Causes skin irritation.
- H318 - Causes serious eye damage.
- H319 - Causes serious eye irritation.
- H332 - Harmful if inhaled.
- H335 - May cause respiratory irritation.
- H412 - Harmful to aquatic life with long lasting effects.
- R 8 - Contact with combustible material may cause fire.
- R20 - Harmful by inhalation.
- R21 - Harmful in contact with skin.
- R22 - Harmful if swallowed.
- R36 - Irritating to eyes.
- R37 - Irritating to respiratory system.
- R38 - Irritating to skin.
- R41 - Risk of serious damage to eyes.

**Abbreviations and acronyms:**

- AISE - The international Association for Soaps, Detergents and Maintenance Products
- DNEL - Derived No Effect Limit
- EUH - CLP Specific hazard statement
- PBT - Persistent, Bioaccumulative and Toxic
- PNEC - Predicted No Effect Concentration
- REACH number - REACH registration number, without supplier specific part
- vPvB - very Persistent and very Bioaccumulative
- ATE - Acute Toxicity Estimate

**End of Safety Data Sheet**