

# Safety Data Sheet

According to Regulation (EC) No 1907/2006

Revision: 2020-12-14

# Zenith 2B Machine Rinse Aid

Version: 01.0

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

1.1 Product identifier Trade name: Zenith 2B Machine Rinse Aid

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

Identified uses: For professional use only. AISE-P204 - Rinse aid. 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 Ltd, Weston Favell Centre, Northampton NN3 8PD, United Kingdom

### **Contact details**

Zenith Hygiene Group A1M Business Centre Dixons Hill Road Welham Green Herts AL9 7JE www.zhgplc.com 01707 270260 helpdesk@zhgplc.com

# 1.4 Emergency telephone number

Seek medical advice (show the label or safety data sheet where possible) For medical or environmental emergency only: call 0800 052 0185

# **SECTION 2: Hazards identification**

# 2.1 Classification of the substance or mixture

Not classified as hazardous

# 2.2 Label elements

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**

# 3.2 Mixtures

The product contains no substances classified as hazardous in concentrations which should be taken into account.

Ingredient(s)	EC number	CAS number	REACH number	Classification	Notes	Weight percent
-	-	-	-	Not classified as hazardous		-

# 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:	Rinse cautiously with water for several minutes. If irritation occurs and persists, get medical attention.
Ingestion:	Rinse mouth. Immediately drink 1 glass of water. Never give anything by mouth to an unconscious person. Get medical attention or advice if you feel unwell.

Self-protection	of first	aider:
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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:	No known effects or symptoms in normal use.
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. Dilute with plenty of water.

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

Dyke to collect large liquid spills. Absorb with liquid-binding material (sand, diatomite, universal binders, sawdust). Do not place spilled materials back into the original container. Collect in closed and suitable containers for disposal.

### 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

# 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. Do not mix with other products.

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

Store in accordance with local and national regulations. Keep only in original packaging. 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	Short term - Systemic	Long term - Local	Long term - Systemic
	effects	effects	effects	effects
-	No data available	No data available	No data available	No data available

Ingredient(s)	Short term - Local	Short term - Systemic	Long term - Local	Long term - Systemic
	effects	effects (mg/kg bw)	effects	effects (mg/kg bw)
-	No data available	No data available	No data available	No data available

## DNEL dermal exposure - Consumer

Ingredient(s)	Short term - Local	Short term - Systemic	Long term - Local	Long term - Systemic
	effects	effects (mg/kg bw)	effects	effects (mg/kg bw)
-	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	Short term - Systemic	Long term - Local	Long term - Systemic
	effects	effects	effects	effects
-	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	Short term - Systemic	Long term - Local	Long term - Systemic
	effects	effects	effects	effects
-	No data available	No data available	No data available	No data available

### Environmental exposure Environmental exposure - PNEC

Ingredient(s)		Surface water, marine	Intermittent (mg/l)	Sewage treatment
<u>.</u>	(mg/l) No data available	(mg/l) No data available	No data available	plant (mg/l) No data available

Environmental exposure - PNEC, continued				
Ingredient(s)	Sediment, freshwater	Sediment, marine	Soil (mg/kg)	Air (mg/m <sup>3</sup> )
	(mg/kg)	(mg/kg)		
-	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 of the Safety Data Sheet. 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 <u>undiluted</u> product: Covering activities such as filling and transfer of product to application equipment, flasks or buckets

Appropriate engineering controls: Appropriate organisational controls:	No special requirements under normal use conditions. No special requirements under normal use conditions.
Personal protective equipment Eye / face protection:	Safety glasses are not normally required. However, their use is recommended in those cases where
Hand protection: Body protection: Respiratory protection:	splashes may occur when handling the product (EN 166). No special requirements under normal use conditions. No special requirements under normal use conditions. No special requirements under normal use conditions.
Environmental exposure controls:	No special requirements under normal use conditions.
Recommended safety measures for hand	dling the <u>diluted</u> product:
Recommended maximum concentration	on (% w/w): 0.05

Appropriate engineering controls:	No special requirements under normal use conditions.
Appropriate organisational controls:	No special requirements under normal use conditions.
Personal protective equipment Eye / face protection: Hand protection: Body protection:	No special requirements under normal use conditions. No special requirements under normal use conditions. No special requirements under normal use conditions

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### **Respiratory protection:**

Substance data boiling point

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

Physical State: Liquid Colour: Clear , Blue Odour: Product specific Odour threshold: Not applicable pH ≈ 7 (neat) **Dilution pH:** ≈ 7 (0.05 %) Melting point/freezing point (°C): Not determined Initial boiling point and boiling range (°C): Not determined Method / remark

ISO 4316 ISO 4316 Not relevant to classification of this product See substance data

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Ingredient(s)	Value (°C)	Method	Atmospheric pressure (hPa)
	No data available		(11 0)

Flammability (liquid): Not flammable. Flash point (°C): Not applicable. Sustained combustion: Not applicable. (UN Manual of Tests and Criteria, section 32, L.2)

Evaporation rate: Not determined Flammability (solid, gas): Not applicable to liquids Upper/lower flammability limit (%): Not determined

Substance data, flammability or explosive limits, if available:

## Vapour pressure: Not determined

Method / remark

OECD 109 (EU A.3)

Method / remark

See substance data

Substance data, vapour pressure

Ingredient(s)	Value (Pa)	Method	Temperature (°C)
-	No data available		

## Vapour density: Not determined Relative density: ≈ 1.00 (20 °C) Solubility in / Miscibility with Water: Fully miscible

Substance data solubility in water

Ingredient(s)	Value (g/l)	Method	Temperature (°C)
-	No data available		

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

Autoignition temperature: 99 Decomposition temperature: Not applicable. 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 corrosive

Substance data, dissociation constant, if available:

# SECTION 10: Stability and reactivity

# 10.1 Reactivity

Method / remark

Not relevant to classification of this product Weight of evidence

Not relevant to classification of this product

# Method / remark

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

None known under normal use conditions.

# 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

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)	ATE (mg/kg)
-		No data available				Not established

Acute dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)	ATE (mg/kg)
-		No data				Not established
		available				

## Acute inhalative toxicity

Ingredient(s)	Endpoint	Value	Species	Method	Exposure
		(mg/l)			time (h)
-		No data			
		available			

Acute inhalative toxicity, continued

Ingredient(s)	ATE - inhalation, dust	ATE - inhalation, mist	ATE - inhalation,	ATE - inhalation, gas
	(mg/l)	(mg/l)	vapour (mg/l)	(mg/l)
-	Not established	Not established	Not established	Not established

#### Irritation and corrosivity Skin irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
-	No data available			

Eye irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
-	No data available			

Respiratory tract irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
-	No data available			

Sensitisation Sensitisation by skin contact

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Ingredient(s)	Result	Species	Method	Exposure time (h)
-	No data available			

Sensitisation by inhalation

Ingredient(s)	Result	Species	Method	Exposure time
-	No data available			

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

Ingredient(s)	Result (in-vitro)	Method (in-vitro)	Result (in-vivo)	Method (in-vivo)
-	No data available		No data available	

Carcinogenicity

Ingredient(s)	Effect
-	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
-			No data				
			available				

# Repeated dose toxicity

	Repeated dose toxicity						
ł	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
	-		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
-		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
-		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
-			No data available					

# STOT-single exposure

Ingredient(s)	Affected organ(s)
-	No data available

STOT-repeated exposure

Ingredient(s)	Affected organ(s)
-	No data available

Aspiration hazard Substances with an aspiration hazard (H304), if any, are listed in section 3.

# 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)
-		No data available			

Aquatic short-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
-		No data available			

# Aquatic short-term toxicity - algae

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
-		No data available			

# Aquatic short-term toxicity - marine species

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (days)
-		No data			
		available			

Impact on sewage plants - toxicity to bacteria					
Ingredient(s)	Endpoint	Value (mg/l)	Inoculum	Method	Exposure time
-		No data			
		available			

## Aquatic long-term toxicity Aquatic long-term toxicity - fish

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
-		No data				
		available				

Aquatic long-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
-		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
-		No data available				

### **Terrestrial toxicity**

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

Terrestrial toxicity - plants, if available:

Terrestrial toxicity - birds, if available:

Terrestrial toxicity - beneficial insects, if available:

Terrestrial toxicity - soil bacteria, if available:

# 12.2 Persistence and degradability

Abiotic degradation Abiotic degradation - photodegradation in air, if available:

Abiotic degradation - hydrolysis, if available:

Abiotic degradation - other processes, if available:

# Biodegradation

Ready biodegradability - aerobic conditions					
Ingredient(s)	Inoculum	Analytical method	DT 50	Method	Evaluation
-					No data available

Ready biodegradability - anaerobic and marine conditions, if available:

Degradation in relevant environmental compartments, if available:

## 12.3 Bioaccumulative potential

Partition coefficient n-octanol/water (log Kow)						
Ingredient(s)	Value	Method	Evaluation	Remark		
-	No data available					

Bioconcentration factor (BCF)

Ingredient(s)	Value	Species	Method	Evaluation	Remark
-	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
-	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	The concentrated contents or contaminated packaging should be disposed of by a certified handler
Waste from residues / unused	or according to the site permit. Release of waste to sewers is discouraged. The cleaned packaging
products:	material is suitable for energy recovery or recycling in line with local legislation.
European Waste Catalogue:	20 01 30 - detergents other than those mentioned in 20 01 29.
Empty packaging Recommendation: Suitable cleaning agents:	Dispose of observing national or local regulations. Water, if necessary with cleaning agent.

# SECTION 14: Transport information

Land transport (ADR/RID), Sea transport (IMDG), Air transport (ICAO-TI / IATA-DGR)

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

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 and the IBC Code: Non-dangerous goods

# **SECTION 15: Regulatory information**

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

• Regulation (EC) No 1272/2008 - CLP

Regulation (EC) No. 648/2004 - Detergents regulation

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

UFI: J0UD-E14S-T00E-D2F0

# Ingredients according to EC Detergents Regulation 648/2004

non-ionic surfactants, anionic surfactants 2-Bromo-2-Nitropropane-1,3-Diol

The surfactant(s) contained in this preparation complies(comply) 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.

Seveso - Classification: Not classified

### 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

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## **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.

### 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
- LD50 Lethal Dose, 50% / Median Lethal dose · LC50 - Lethal Concentration, 50% / Median Lethal Concentration
- · EC50 effective concentration, 50%
- NOEL No observed effect level
- NOAEL No observed adverse effect level
- OECD Organization for Economic Cooperation and Development

End of Safety Data Sheet

< 5 %