

# **Safety Data Sheet**

# Suma Vegwash D4.6

**Revision:** 2018-06-06 **Version:** 01.0

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

#### 1.1 Product identifier

Trade name: Suma Vegwash D4.6

#### 1.2 Recommended use and restrictions on use

For professional use only.

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

Diversey (Malaysia) Sdn. Bhd.

#### **Contact details**

No. 6, Jalan Pengarah U1/29, Seksyen U1 Hicom Glenmarie Industrial Park 40150 Shah Alam Selangor, Malaysia

Tel: +603-5569-6363 Fax: +603-5569-6262

#### 1.4 Emergency telephone number

Tel: +603-5569-6363

# **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

Aquatic Chronic 2 (H411)

#### 2.2 Label elements



#### Hazard statements:

H411 - Toxic to aquatic life with long lasting effects.

#### 2.3 Other hazards

No other hazards known

Exposure and appropriate engineering controls are specified in subsection 8.2 exposure controls.

# 2.4 Classification diluted product:

Recommended maximum concentration (%): 0.37

Not classified as hazardous

# **SECTION 3: Composition/information on ingredients**

#### 3.1 Substances / Mixtures

Ingredient(s)	CAS number	Classification	Weight percent
sodium dichloroisocyanurate, dihydrate	51580-86-0	Acute Tox. 4 (H302) STOT SE 3 (H335) Eye Irrit. 2 (H319) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	3-10

This preparation contains less than 12% Sodium hydroxide/Potassium hydroxide which exempts from Poison Act 1952. Workplace exposure limit(s), if available, are listed in subsection 8.1.

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

# **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.

Rinse mouth. Immediately drink 1 glass of water. Never give anything by mouth to an unconscious Ingestion:

person. Get medical attention or advice if you feel unwell.

Consider personal protective equipment as indicated in subsection 8.2. Self-protection of first aider:

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

Inhalation: No known effects or symptoms in normal use. No known effects or symptoms in normal use. Skin contact: 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. Do not allow to enter the ground/soil. Inform responsible authorities in case undiluted product reaches drainage system, surface or ground water or the ground/soil.

### 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

#### 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 adviced by Diversey. 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. See chapter 8.2, Exposure controls / Personal protection.

# 7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local and national regulations. Store in a closed container. 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:

#### 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 undiluted 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: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: Should not reach sewage water or drainage ditch undiluted or unneutralised.

Recommended safety measures for handling the diluted product:

Recommended maximum concentration (%): 0.37

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: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

Physical State: Solid Colour: Clear, White

Odour threshold: Not applicable

**pH:** Not applicable. **Dilution pH:** ≈ 7 (1%)

Odour: Chlorine

Melting point/freezing point (°C): Not determined

Initial boiling point and boiling range (°C): Not determined

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 determined

Upper/lower flammability limit (%): Not determined

Vapour pressure: Not determined Vapour density: Not determined Relative density: ≈ 1.15 (20 °C)

Solubility in / Miscibility with Water: completely soluble Soluble Partition coefficient: n-octanol/water No information available. Substance data, partition coefficient n-octanol/water (log Kow): see subsection 12.3

Autoignition temperature: Not determined

Method / remark

ISO 4316

Not relevant to classification of this product

Not applicable to solids or gases

Not relevant to classification of this product

Not relevant to classification of this product

OECD 109 (EU A.3)

Decomposition temperature: Not applicable.

Viscosity: Not determined Not applicable to solids or gases

**Explosive properties:** Not explosive. **Oxidising properties:** Not oxidising

9.2 Other information

Surface tension (N/m): Not determined Corrosion to metals: Not determined

Not applicable to solids or gases

# 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

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)
sodium dichloroisocyanurate, dihydrate	LD 50	1671	Rat	EPA OPP 81-1	

Acute dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)
sodium dichloroisocyanurate, dihydrate	LD 50	> 5000	Rat	EPA OPP 81-2	

Acute inhalative toxicity

	Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
ſ	sodium dichloroisocyanurate, dihydrate	LC 50	> 0.27	Rat	OECD 403 (EU B.2)	4

#### Irritation and corrosivity

Skin irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
sodium dichloroisocyanurate, dihydrate	Corrosive	Rabbit	EPA OPP 81-5	

Eye irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
sodium dichloroisocyanurate, dihydrate	Corrosive	Rabbit	EPA OPP 81-4	

Respiratory tract irritation and corrosivity

Respiratory tract initiation and corrosivity							
Ingredient(s)	Result	Species	Method	Exposure time			
sodium dichloroisocyanurate, dihydrate	Irritating to						
	respiratory tract						

# Sensitisation

Sensitisation by skin contact

Ingredient(s)	Result	Species	Method	Exposure time (h)
sodium dichloroisocyanurate, dihydrate	Not sensitising	Guinea pig	OECD 406 (EU B.6) /	
·	_		GPMT	

Sensitisation by inhalation

Ingredient(s)	Result	Species	Method	Exposure time
sodium dichloroisocyanurate, dihydrate	No data available			

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

Mutagenicity

Ingredient(s)	Result (in-vitro)	Method	Result (in-vivo)	Method
		(in-vitro)		(in-vivo)
sodium dichloroisocyanurate, dihydrate	No evidence for mutagenicity, negative	OECD 471 (EU	No evidence of genotoxicity, negative	OECD 475 (EU
-	test results	B.12/13)	test results	B.11)

Carcinogenicity

- 2	Sarcinogeniony			
	Ingredient(s)	Effect		
	sodium dichloroisocyanurate, dihydrate	No evidence for carcinogenicity, negative test results		

Toxicity for reproduction

Ingredient(s)	Endpoint	Specific effect	Value (mg/kg bw/d)	Species	Method	Exposure time	Remarks and other effects reported
sodium dichloroisocyanurate, dihydrate	NOAEL	Developmental toxicity	190	Rat	OECD 416, (EU B.35), oral		

# Repeated dose toxicity

Sub-acute or sub-chronic oral toxicity

ub-acute of sub-chronic oral toxicity									
Ingredient(s)	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time (days)	Specific effects and organs affected			
sodium dichloroisocyanurate, dihydrate	NOAEL	115	Rat	Method not given	28				

Sub-chronic dermal toxicity

ub-chionic definal toxicity									
Ingredient(s)	Endpoint	Value	Species	Method	Exposure	Specific effects and organs			
		(mg/kg bw/d)			time (days)	affected			
sodium dichloroisocyanurate, 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 dichloroisocyanurate, dihydrate	NOAEL	> 31	Rat	Method not given	28	

Chronic toxicity

Chloric toxicity									
Ingredient(s)	Exposure	Endpoint	Value	Species	Method	Exposure	Specific effects and	Remark	
	route		(mg/kg bw/d)			time	organs affected		
sodium	Oral	NOAEL	1523	Mouse	OECD 453	24 month(s)			
dichloroisocyanurate,					(EU B.33)				
dihydrate									

STOT-single exposure

Ingredient(s)	Affected organ(s)
sodium dichloroisocyanurate, dihydrate	No data available

STOT-repeated exposure

Ingredient(s)	Affected organ(s)
sodium dichloroisocyanurate, 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

Ingredient(s)		En	dpoint	Valu	-	Spec	ies	- 1	Method	Exposur
sodium dichloroisocyanurate, dih	ydrate		LC 50	(mg/l 0.23		Lepo		Meth	od not given	time (h) 96
				<u> </u>		macro	chirus			
quatic short-term toxicity - crustacea Ingredient(s)		l En	dpoint	Valu	Δ .	Spec	ios		/lethod	Exposur
• ,,	udrata		EC 50	(mg/	1)	·			draft method	time (h)
sodium dichloroisocyanurate, dih	yurate		EC 50	0.17		Dapl magna		ASTIV	drait method	46
quatic short-term toxicity - algae										1_
Ingredient(s)		En	dpoint	Valu (mg/		Spec	ies	ľ	Method	Exposu time (h
sodium dichloroisocyanurate, dih	ydrate		EC 50	< 0.	5	Scened obliq		Non	guideline test	3
quatic short-term toxicity - marine species										
Ingredient(s)		En	dpoint	Valu (mg/		Spec	ies	ı	Method	Exposu time (day
sodium dichloroisocyanurate, dih	ydrate			No da availa						-
npact on sewage plants - toxicity to bacteria										
Ingredient(s)		En	dpoint	Valu (mg/	-	Inocu	lum	ı	Method	Exposu
sodium dichloroisocyanurate, dih	ydrate			No da availa	ıta					time
quatic long-term toxicity		•								
quatic long-term toxicity - fish  Ingredient(s)	Endpoint	Value	l en	ecies	Mo	thod	Expos	suro I	Effects ob	sorvod
		(mg/l)					time	е	Effects ob	serveu
sodium dichloroisocyanurate, dihydrate	NOEC	1000		rhynchus nykiss	OEC	CD 215	28 da	y(s)		
quatic long-term toxicity - crustacea	1=						1_		=======================================	
Ingredient(s)	Endpoint	Value (mg/l)		ecies		thod	Expos	e	Effects obs	servea
sodium dichloroisocyanurate, dihydrate	NOEC	160		aphnia nagna	OEC	CD 211	21 da	y(s)		
quatic toxicity to other aquatic benthic organisms, in	cluding sediment	t-dwelling orga	nisms, if	available:						
Ingredient(s)	Endpoint	Value (mg/kg dw sediment)		ecies	Me	thod	Expos time (d		Effects ob	served
sodium dichloroisocyanurate, dihydrate		No data available					-			
errestrial toxicity	•	•	•				•			
errestrial toxicity - soil invertebrates, including earthy	_					41 . 1	1		F#	1
Ingredient(s)	Endpoint	Value (mg/kg dw soil)		ecies	IVIE	thod	Expos time (d		Effects ob	servea
sodium dichloroisocyanurate, dihydrate	NOEC	1000	Eisei	nia fetida	OEC	CD 207	14			
errestrial toxicity - plants, if available:										
Ingredient(s)	Endpoint	Value (mg/kg dw		ecies	Ме	thod	Expos time (d		Effects ob	served
sodium dichloroisocyanurate, dihydrate		No data available					-			
errestrial toxicity - birds, if available:  Ingredient(s)	Endpoint	Value	Sp	ecies	Ме	thod	Expos		Effects ob	served
sodium dichloroisocyanurate, dihydrate		No data available					time (d	ays)		
		_ available			<u> </u>		1			
orrostrial toxicity honoficial incosts if available			Sn	ecies	Me	thod	Expos	sure	Effects ob	served
errestrial toxicity - beneficial insects, if available:  Ingredient(s)	Endpoint	Value (mg/kg dw					unie (u	uy3/		
errestrial toxicity - beneficial insects, if available: Ingredient(s) sodium dichloroisocyanurate, dihydrate	Endpoint	(mg/kg dw soil) No data					-	ay3)		
Ingredient(s)	Endpoint	(mg/kg dw soil)						ay3)		

	soil)			
sodium dichloroisocyanurate, dihydrate	No data		-	
	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
sodium dichloroisocyanurate, dihydrate		Oxygen depletion	2 % in 28d day(s)	OECD 301D	Not readily biodegradable.

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
sodium dichloroisocyanurate, dihydrate	-0.0056	Method not given	No bioaccumulation expected	

Bioconcentration factor (BCF)

Dioconcentration ractor (	DOI )				
Ingredient(s)	Value	Species	Method	Evaluation	Remark
sodium	No data available				
dichloroisocyanurate,					
dihydrate					

#### 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 dichloroisocyanurate, dihydrate	No data available				

#### 12.5 Other adverse effects

No other adverse effects known.

# **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods Waste from residues / unused

products:

Dispose of observing national or local regulations. Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. Do not dispose of waste into sewer. Do not re-use empty containers.

**Empty packaging** 

Dispose of observing national or local regulations. Recommendation:

### SECTION 14: Transport information



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

14.1 UN number: 3077

14.2 UN proper shipping name:

Environmentally hazardous substance, solid, n.o.s. (sodium dichloroisocyanurate dihydrate)

14.3 Transport hazard class(es):

Transport hazard class (and subsidiary risks): 9

14.4 Packing group: III

14.5 Environmental hazards:

Environmentally hazardous: Yes

Marine pollutant: Yes

14.6 Special precautions for user: None known.

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

#### Other relevant information:

IMO/IMDG

EmS: F-A, S-F

The product has been classified, labelled and packaged in accordance with the requirements of national road transport regulations and the provisions of the IMDG Code

Transport regulations include special provisions for dangerous goods packed in small quantities classified under UN3077 or UN3082

# **SECTION 15: Regulatory information**

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

#### **National regulations**

· Occupational Safety and Health (Classification, Labelling and Safety Data Sheet of Hazardous Chemicals) Regulations 2013

# **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

**SDS code:** MS4000438 **Version:** 01.0 **Revision:** 2018-06-06

### Full text of the H phrases mentioned in section 3:

- H302 Harmful if swallowed.
- H319 Causes serious eye irritation.
- · H335 May cause respiratory irritation.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.

#### Abbreviations and acronyms:

- DNEL Derived No Effect Limit
- PNEC Predicted No Effect Concentration
- 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
- STOT-RE Specific target organ toxicity (repeated exposure)
- STOT-SE Specific target organ toxicity (single exposure)
- OECD Organization for Economic Cooperation and Development

**End of Safety Data Sheet**