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Information Data Sheet

According to Annex II to REACH - Regulation 2015/830

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

1.1. Product identifier

Code: Ref. 210002661

Product name The Ritual of Ayurveda Foaming Shower Gel Ref. 210002661

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

Intended use Mixture, filler / filler

Identified Uses Industrial Professional Consumer
Cosmetic - -

1.3. Details of the distributor of the Information Data Sheet

Rituals Cosmetics BV Herengracht 541 1017 BW Amsterdam The Netherlands Tel. +31 20 333 91 00 info@rituals.com

1.4. Emergency telephone number

For urgent inquiries refer to Telephone: +31 20 333 91 00 (office hours9

SECTION 2. Hazards identification

2.1. Classification of the substance or mixture

Being a COSMETIC product (as defined by Regulation (EC) 1223/2009), the product does not fall within the scope of regulation (EC) 1272/2008 concerning the classification of dangerous mixtures.

Being in the form of an aerosol generator it is classified and labeled according to Directive 75/324 / EC and subsequent amendments, which refers to Regulation (EC) 1272/2008 itself.

Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard classification and indication:

Aerosol, category 3 H229 Pressurised container: may burst if heated.

2.2. Label elements

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms: --

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Signal words: Warning

Hazard statements:

H229 Pressurised container: may burst if heated.

Precautionary statements:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P251 Do not pierce or burn, even after use.

P410+P412 Protect from sunlight. Do no expose to temperatures exceeding 50°C / 122°F.

P102 Keep out of reach of children.

Contains: D-Glucopyranose, oligomers, decyl octyl glycosides

Acido solforico, esteri mono-C12-18-alchilici, sali di sodio D-Glucopyranose, oligomeric, C10-16-alkyl glycosides

5,84% by mass of the contents are flammable.

2.3. Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage ≥ than 0,1%.

SECTION 3. Composition/information on ingredients

3.1. Substances

Information not relevant

3.2. Mixtures

Contains:

Identification Classification 1272/2008 (CLP) x = Conc. %

Acido solforico, esteri mono-C12-

18-alchilici, sali di sodio

5 ≤ x < 9 CAS 68955-19-1 Eye Dam. 1 H318, Skin Irrit. 2 H315, Aquatic Chronic 3 H412

EC 273-257-1 INDEX -

Reg. no. 01-2119490225-39-XXXX

D-Glucopyranose, oligomers,

decyl octyl glycosides

CAS 68515-73-1 $3 \le x < 5$ Eye Dam. 1 H318

EC 500-220-1 INDEX -

Reg. no. 01-2119488530-36-XXXX

D-Glucopyranose, oligomeric,

C10-16-alkyl glycosides

Eye Dam. 1 H318, Skin Irrit. 2 H315 CAS 110615-47-9 $1 \le x < 5$

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EC 600-975-8

INDEX -

Reg. no. 01-2119489418-23-XXXX

Isopentane

CAS 78-78-4 2,5 ≤ x < 5 Flam. Liq. 1 H224, Asp. Tox. 1 H304, STOT SE 3 H336, Aquatic Chronic 2

H411, EÜH066 EC 201-142-8

INDEX 601-085-00-2

Reg. no. 01-2119475602-38-XXXX

Isobutane containing more than 0.1% butadiene (203-450-8)

CAS 75-28-5 1 ≤ x < 5 Flam. Gas 1A H220, Press. Gas (Liq.) H280, Classification note/notes

according to Annex VI to the CLP Regulation: C, S, U

EC 200-857-2 INDEX 601-004-01-8

Reg. no. 01-2119485395-27-XXXX

(2E) -2-benzylideneoctanal

CAS 165184-98-5 $0 \le x < 0.5$ Skin Sens. 1B H317, Aquatic Acute 1 H400 M=10, Aquatic Chronic 2 H411

EC 639-566-4

INDEX -

Reg. no. 01-2119533092-50-XXXX

Linalyl acetate

CAS 115-95-7 0 ≤ x < 0,5 Eye Irrit. 2 H319, Skin Irrit. 2 H315, Skin Sens. 1B H317

EC 204-116-4

INDEX -

Reg. no. 01-2119454789-19-XXXX

(R) -p-mentha-1,8-diene

CAS 5989-27-5 0 ≤ x < 0.25 Flam. Lig. 3 H226, Asp. Tox. 1 H304, Skin Irrit. 2 H315, Skin Sens. 1 H317,

Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1, Classification

note/notes according to Annex VI to the CLP Regulation: C

EC 227-813-5

INDEX 601-029-00-7

Reg. no. 01-2119529223-47-XXXX

The full wording of hazard (H) phrases is given in section 16 of the sheet.

The product is an aerosol containing propellants. For the purposes of calculation of the health hazards, propellants are not considered (unless they have health hazards). The percentages indicated are inclusive of the propellants.

Percentage of propellants: 4,00 %

SECTION 4. First aid measures

4.1. Description of first aid measures

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention immediately. Wash contaminated clothing before using it again.

INHALATION: Remove to open air. If the subject stops breathing, administer artificial respiration. Get medical advice/attention immediately. INGESTION: Get medical advice/attention immediately. Do not induce vomiting. Do not administer anything not explicitly authorised by a doctor.

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

Specific information on symptoms and effects caused by the product are unknown.

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

Information not available

SECTION 5. Firefighting measures

5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT

The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray. UNSUITABLE EXTINGUISHING EQUIPMENT

None in particular.

5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

If overheated, aerosol cans can deform, explode and be propelled considerable distances. Put a protective helmet on before approaching the fire. Do not breathe combustion products.

5.3. Advice for firefighters

GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the Information Data Sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

6.3. Methods and material for containment and cleaning up

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

6.4. Reference to other sections

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Any information on personal protection and disposal is given in sections 8 and 13.

SECTION 7. Handling and storage

7.1. Precautions for safe handling

Avoid bunching of electrostatic charges. Do not spray on flames or incandescent bodies. Vapours may catch fire and an explosion may occur; vapour accumulation is therefore to be avoided by leaving windows and doors open and ensuring good cross ventilation. Do not eat, drink or smoke during use. Do not breathe spray.

7.2. Conditions for safe storage, including any incompatibilities

Store in a place where adequate ventilation is ensured, away from direct sunlight at a temperature below 50°C / 122°F, away from any combustion sources.

Storage class TRGS 510 (Germany):

7.3. Specific end use(s)

Information not available

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Regulatory References:

DEU	Deutschland	Technischen Regeln für Gefahrstoffe (TRGS 900) - Liste der Arbeitsplatzgrenzwerte und Kurzzeitwerte.
		MAK- und BAT-Werte-Liste 2020, Ständige Senatskommission zur Prüfung gesundheitsschädlicher
		Arbeitsstoffe, Mitteilung 56
ESP	España	Límites de exposición profesional para agentes químicos en España 2019
FRA	France	Valeurs limites d'exposition professionnelle aux agents chimiques en France. ED 984 - INRS
ITA	Italia	Decreto Legislativo 9 Aprile 2008, n.81
POL	Polska	Rozporządzenie Ministra Rodziny, Pracy i Polityki Społecznej z dnia 12 czerwca 2018 r. w sprawie
		najwyższych dopuszczalnych stężeń i natężeń czynników szkodliwych dla zdrowia w środowisku pracy
GBR	United Kingdom	EH40/2005 Workplace exposure limits (Fourth Edition 2020)
EU	OEL EU	Directive (EU) 2019/1831; Directive (EU) 2019/130; Directive (EU) 2019/983; Directive (EU) 2017/2398;
		Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive
		2000/39/EC: Directive 98/24/EC: Directive 91/322/EEC.

D-Glucopyranose, olig	jomers, decyl octyl	glycosides						
Predicted no-effect concent	tration - PNEC							
Normal value in fresh water	r			0,176	mç	g/l		
Normal value in marine wat	ter			0,0176	mg	g/l		
Normal value for fresh water	er sediment			1,516	mg	g/kg		
Normal value for marine wa	ater sediment			0,152	mg	g/kg		
Normal value of STP microorganisms			560	mg	g/l			
Health - Derived no-eff	fect level - DNEL / D	MEL						
	Effects on				Effects on			
	consumers				workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				35,7 mg/kg bw/d		-		-
Inhalation				124 mg/m3				420 mg/m3

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systemic

systemic

Skin				357000 mg/kg bw/d				595000 mg/kg bw/d
D-Glucopyranose, oligo		xyl glycosides						
Normal value in fresh water				0,176	mg/	1		
Normal value in marine water	•			0,018	mg/			
Normal value for fresh water	sediment			1,516	mg/			
Normal value for marine wate	er sediment			0,065	mg/			
Normal value of STP microor	ganisms			5000	mg/			
Isopentane								
Threshold Limit Value		T14/4/01		0751 (15.			,	
Type	Country	TWA/8h		STEL/15min		Remarks Observa		
		mg/m3	ppm	mg/m3	ppm			
AGW	DEU	3000	1000	6000	2000			
VLA	ESP	3000	1000					
VLEP	FRA	3000	1000					
VLEP	ITA	2000	667					
NDS/NDSCh	POL	3000						
WEL	GBR	1800	600					
OEL	EU	3000	1000					
Health - Derived no-effe	ct level - DNEL / I Effects on consumers	DMEL			Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic	Acute local	Acute	Chronic local	Chronic
Oral				systemic 214 mg/kg bw/d		systemic		systemic
Inhalation				643 mg/m3				3000 mg/m3
Skin				214 mg/kg bw/d				432 mg/kg bw/d
Isobutane containing mo	ore than 0.1% bu	tadiene (203-450-	-8)					
Туре	Country	TWA/8h		STEL/15min		Remarks Observa		
		mg/m3	ppm	mg/m3	ppm			
AGW	DEU	2400	1000	9600	4000			
(2E) -2-benzylideneoctal								
Normal value in fresh water				0,00126	mg/	/1		
Normal value in marine water				0,000126	mg/			
Normal value for fresh water				3,2	mg/			
Normal value for marine wate	er sediment			0,064	mg/			
Normal value of STP microor				10	mg/			
Health - Derived no-effe		DMEL			Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic

systemic

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Oral			0,056 mg/kg bw/d			
Inhalation	4,71 mg/m3		0,019 mg/m3	6,28 mg/m3		0,078 mg/m3
Skin	0,0787 mg/cm2	0,0787 mg/cm2	9,11 mg/kg bw/d	0,525 mg/cm2	0,525 mg/kg bw/d	18,2 mg/kg bw/d

Legend:

(C) = CEILING; INHAL = Inhalable Fraction; RESP = Respirable Fraction; THORA = Thoracic Fraction.

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified.

8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

HAND PROTECTION

None required.

SKIN PROTECTION

Wear category I professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

EYE PROTECTION

Wear airtight protective goggles (see standard EN 166).

RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, a mask with a type A filter combined with a type P filter should be worn (see standard EN 14387).

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance Gel Colour white Odour characteristic Odour threshold Not available 4,7-5,3 Melting point / freezing point Not available Not applicable Initial boiling point Boiling range Not available Flash point Not applicable Not available Evaporation rate Flammability (solid, gas) Not available

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Lower inflammability limit Not available Upper inflammability limit Not available Lower explosive limit Not available Upper explosive limit Not available Vapour pressure Not available Vapour density Not available Relative density Not available Solubility Not available Not available Partition coefficient: n-octanol/water Auto-ignition temperature Not available Decomposition temperature Not available Not available Viscosity Explosive properties Not available Not available Oxidising properties

9.2. Other information

Information not available

SECTION 10. Stability and reactivity

10.1. Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

10.2. Chemical stability

The product is stable in normal conditions of use and storage.

10.3. Possibility of hazardous reactions

No hazardous reactions are foreseeable in normal conditions of use and storage.

10.4. Conditions to avoid

Avoid overheating.

10.5. Incompatible materials

Strong reducing or oxidising agents, strong acids or alkalis, hot material.

10.6. Hazardous decomposition products

Information not available

SECTION 11. Toxicological information

11.1. Information on toxicological effects

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Metabolism	toxicokinetics	mechanism o	f action and	d other information

Information not available

Information on likely routes of exposure

Information not available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Information not available

Interactive effects

Information not available

ACUTE TOXICITY

ATE (Inhalation) of the mixture: Not classified (no significant component) ATE (Oral) of the mixture: Not classified (no significant component) ATE (Dermal) of the mixture: Not classified (no significant component)

(R) -p-mentha-1,8-diene

LD50 (Oral) 4400 mg/kg rat

LD50 (Dermal) > 5000 mg/kg

Isopentane

LD50 (Oral) 2000 mg/kg

Linalyl acetate

LD50 (Oral) 14500 mg/kg

LD50 (Dermal) > 5000 mg/kg

D-Glucopyranose, oligomers, decyl octyl glycosides

LD50 (Oral) 2000 mg/kg

LD50 (Dermal) 2000 mg/kg

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(2E) -2-benzylideneoctanal

LD50 (Oral) 3100 mg/kg rat

LD50 (Dermal) 3000 mg/kg rabbit

Acido solforico, esteri mono-C12-18-alchilici, sali di sodio

LD50 (Oral) 2000 mg/kg

SKIN CORROSION / IRRITATION

Does not meet the classification criteria for this hazard class

SERIOUS EYE DAMAGE / IRRITATION

Does not meet the classification criteria for this hazard class

RESPIRATORY OR SKIN SENSITISATION

Does not meet the classification criteria for this hazard class

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

SECTION 12. Ecological information

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or

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contaminate soil or vegetation.

12.1. Toxicity

(R) -p-mentha-1,8-diene

LC50 - for Fish 0,72 mg/l/96h EC10 for Algae / Aquatic Plants 0,149 mg/l/72h Chronic NOEC for Fish 37 mg/l Chronic NOEC for Crustacea 0,153 mg/l

Linalyl acetate

LC50 - for Fish 116 mg/l/96h

D-Glucopyranose, oligomeric, C10-16-alkyl

glycosides

LC50 - for Fish 2,95 mg/l/96h EC50 - for Crustacea 7 mg/l/48h EC50 - for Algae / Aquatic Plants 5 mg/l/72h Chronic NOEC for Fish 1 mg/l Chronic NOEC for Crustacea 1 mg/l

D-Glucopyranose, oligomers, decyl octyl

glycosides

LC50 - for Fish 100,81 mg/l/96h EC50 - for Crustacea 100 mg/l/48h EC50 - for Algae / Aquatic Plants 27,22 mg/l/72h Chronic NOEC for Fish 1 mg/l Chronic NOEC for Crustacea

1 mg/l

(2E) -2-benzylideneoctanal

1,7 mg/l/96h LC50 - for Fish EC50 - for Crustacea 0,36 mg/l/48h EC50 - for Algae / Aquatic Plants 0,065 mg/l/72h

Acido solforico, esteri mono-C12-18-alchilici,

sali di sodio

LC50 - for Fish 3 mg/l/96h EC50 - for Crustacea 10 mg/l/48h EC50 - for Algae / Aquatic Plants 10 mg/l/72h

12.2. Persistence and degradability

Information not available

12.3. Bioaccumulative potential

Information not available

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12.4. Mobility in soil

Information not available

12.5. Results of PBT and vPvB assessment

On the basis of available data, the product does not contain any PBT or vPvB in percentage ≥ than 0,1%.

12.6. Other adverse effects

Information not available

SECTION 13. Disposal considerations

13.1. Waste treatment methods

Reuse, when possible. Neat product residues should be considered special non-hazardous waste.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

Waste transportation may be subject to ADR restrictions.

CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

SECTION 14. Transport information

14.1. UN number

ADR / RID, IMDG, 1950

IATA:

14.2. UN proper shipping name

ADR / RID: AEROSOLS IMDG: AEROSOLS

IATA: AEROSOLS, NON-FLAMMABLE

14.3. Transport hazard class(es)

ADR / RID: Class: 2 Label: 2.2

IMDG: Class: 2 Label: 2.2

IATA: Class: 2 Label: 2.2



14.4. Packing group

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ADR / RID, IMDG,

IATA:

14.5. Environmental hazards

ADR / RID: NO IMDG: NO IATA: NO

14.6. Special precautions for user

ADR / RID: HIN - Kemler: -- Limited Tunnel

Quantities: 1 restriction L code: (E)

Special provision: -

Pass.:

IMDG: EMS: F-D, S-U Limited

Quantities: 1

IATA: Cargo:

Maximum Packaging quantity: 150 instructions:

Kg Maximum quantity: 75 203
Packaging instructions:

203

Special provision: Kg
Special provision: A98, A145,

A98, A145, A167, A802

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

Information not relevant

SECTION 15. Regulatory information

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

Seveso Category - Directive 2012/18/EC: None

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

Product

Point 40

Contained substance

Point 75 Isobutane containing

more than 0.1% butadiene (203-450-8) Reg. no.: 01-2119485395-27-

XXXX

Point 75 (R) -p-mentha-1,8-

diene Reg. no.: 01-2119529223-47-

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Point 75 dl-linalool; Reg. no.:

01-2119474016-42-

XXXX

Point 75 Citrale Reg. no.: 01-

2119462829-23-

XXXX

Regulation (EC) No. 2019/1148 - on the marketing and use of explosives precursors

Not applicable

Substances in Candidate List (Art. 59 REACH)

On the basis of available data, the product does not contain any SVHC in percentage ≥ than 0,1%.

Substances subject to authorisation (Annex XIV REACH)

None

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Healthcare controls

Information not available

German regulation on the classification of substances hazardous to water (AwSV, vom 18. April 2017)

WGK 2: Hazard to waters

15.2. Chemical safety assessment

A chemical safety assessment has not been performed for the preparation/for the substances indicated in section 3.

SECTION 16. Other information

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Flam. Gas 1A Flammable gas, category 1A

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Aerosol 3 Aerosol, category 3

Flam. Liq. 1 Flammable liquid, category 1
Flam. Liq. 3 Flammable liquid, category 3

Press. Gas (Liq.) Liquefied gas

Asp. Tox. 1 Aspiration hazard, category 1

Eye Dam. 1 Serious eye damage, category 1

Eye Irrit. 2Eye irritation, category 2Skin Irrit. 2Skin irritation, category 2Skin Sens. 1Skin sensitization, category 1Skin Sens. 1BSkin sensitization, category 1B

STOT SE 3 Specific target organ toxicity - single exposure, category 3

Aquatic Acute 1 Hazardous to the aquatic environment, acute toxicity, category 1

Aquatic Chronic 1 Hazardous to the aquatic environment, chronic toxicity, category 1

Aquatic Chronic 2 Hazardous to the aquatic environment, chronic toxicity, category 2

Aquatic Chronic 3 Hazardous to the aquatic environment, chronic toxicity, category 3

H220 Extremely flammable gas.

H229 Pressurised container: may burst if heated.H224 Extremely flammable liquid and vapour.

H226 Flammable liquid and vapour.

H280 Contains gas under pressure; may burst if heated.H304 May be fatal if swallowed and enters airways.

H318 Causes serious eye damage.
H319 Causes serious eye irritation.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.H336 May cause drowsiness or dizziness.

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.
 H412 Harmful to aquatic life with long lasting effects.

EUH066 Repeated exposure may cause skin dryness or cracking.

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation

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- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: EC Regulation 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

GENERAL BIBLIOGRAPHY

- 1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
- 2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
- 3. Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament
- 4. Regulation (EU) 2015/830 of the European Parliament
- 5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
- 6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
- 7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament 8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
- 9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
- 10. Regulation (EÚ) 2015/1221 (VII Atp. CLP) of the European Parliament
- 11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
- 12. Regulation (EU) 2016/1179 (IX Atp. CLP)
- 13. Regulation (EU) 2017/776 (X Atp. CLP) 14. Regulation (EU) 2018/669 (XI Atp. CLP)
- 15. Regulation (EU) 2018/1480 (XIII Atp. CLP)
- 16. Regulation (EU) 2019/521 (XII Atp. CLP)
- 17. Regulation (EU) 2019/1148
- The Merck Index. 10th Edition
- Handling Chemical Safety
- INRS Fiche Toxicologique (toxicological sheet)
- Patty Industrial Hygiene and Toxicology
- N.I. Sax Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- ECHA website
- Database of SDS models for chemicals Ministry of Health and ISS (Istituto Superiore di Sanità) Italy

Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

CALCULATION METHODS FOR CLASSIFICATION

Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for evaluation of chemical-physical properties are reported in section 9.

Health hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determined otherwise in Section 11.

Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12.