

Zschimmer & Schwarz Italiana - 13038 - Tricerro (VC) / ITALY

INFORMAZIONI TOSSICOLOGICHE TOXICOLOGICAL INFORMATION

Revisione n° Revision n° 15

1.	Informazioni generali General information	
1.1	Nome commerciale Trade name	ZETESOL LES 2/SL
1.2	Produttore/Fornitore (indirizzo, telefono, fax, contatto) Manufacturer/Supplier (address, phone no., fax no., contact person)	ZSCHIMMER & SCHWARZ ITALIANA Via A. Ariotto 1/C - 13038 Tricerro (VC) Italy Tel: +39 (0)161 808111 Fax: +39 (0)161 801002 e.merlo@zschimmer-schwarz.com
1.3	Categoria della material prima (es. tensioattivo anionico) Raw material category (e.g. anionic surfactant)	Anionic surfactant
1.4	Nome chimico Chemical name	Alcohols, C12-14, ethoxylated, sulfates, sodium salts 1-2,5 moles ethoxylated
1.5	Nome INCI (CTFA) Composizione INCI (CTFA) name Composition	Sodium Laureth Sulfate: 26.5% - 27.5% Aqua: to 100% INCI declaration Sodium Laureth Sulfate 27% average value
1.6	N° EC (EINECS-/ELINCS) EC (EINECS/ELINCS) no.	Absent because no longer polymer NLP n° 500-234-8
1.7	N° CAS CAS no.	68891-38-3

1.8 Registrazioni (es. UE, USA, Giappone) - REACh - Certificazione

Registration status (e.g. EU, USA, Japan) - REACh - Certification

TSCA (USA), DSL (Canada), AICS (Australia), PICCS (Philippines), ASIA-PAC (Asia-Pacific), NLP (Europe) and ECL (Korea).

Japanes have recently changed their system, so that publication in the Japanese list of approved ingredients is no longer necessary. Any cosmetic ingredient is now allowed in Japan with no prior approvation.

The product is according to the China Cosmetic Ingredient list 2015 n° 08336.

Product is not a biocidal according to Regulation 528/2012.

The product is not a phytosanitary according to Regulation 1107/2009.

REACh registration n° 01-2119488639-16-0005.

None of substances listed in the "candidate" list of substances of very high concern (SVHC) are contained in the product in a relevant amount.

Dioxane and heavy metals are listed on PO 65 (California law).

2.	Informazioni sulla produzione Information on production	
2.1	Origine della materia prima (vegetale, animale, sintetica) Origin of starting material (plant, animal, synthetic)	Vegetable, mineral and synthetic origin. Fatty alcohol is from vegetable origin, then it is ethoxylated. Origin from fatty alcohol: mainly palm kernel oil from Elaeis Guineenis (Malaysia and Indonesia) Sulfur is synthetic and NaOH is mineral.
2.2	La materia prima deriva da organismi geneticamente modificati (OGM)? Is the starting material derived from genetically modified organisms (GMO)?	No

2.3	(descrizione generale)	S burns in presence of air giving SO ₂ S + O ₂ → SO ₂ SO ₂ is converted in SO ₃
	(general description)	$SO_2 + \frac{1}{2}O_2 \rightarrow SO_3$

SO ₃ reacts with fatty alcohol ethoxylated giving an acidic intermediate that is then neutralized with NaOH
SO₃ + ROH → ROSO₃H
Control: acidity number
ROSO₃H + NaOH → ROSO₃⁻ Na⁺ + H₂O
Control: according to specifications

3.	Additives Additives	
3.1	Conservanti/Biocidi Preservatives/Biocides	Not added and not expected
3.2	Antiossidanti Antioxidants	Not added and not expected
3.3	Solvents	Water
3.4	Sbiancanti Bleaching agents	Not added and not expected
3.5	Altri Others	Not added and not expected

4.	Specifiche microbiologiche Microbiological specification	
4.1	Conta microbica totale (ufc/g) Total viable count (colony-forming units/g)	less than 10 cfu/g

5. Residui del processo di lavorazione

La presenza di tracce delle sostanze elencate in Allegato II del Regolamento No. 1223/2009 (che sostituisce la Direttiva 76/768/CEE) (incl. CMR cat. 1A, 1B e 2 sostanze contrassegnate con *) deve essere dimostrata come presenza tecnicamente inevitabile lavorando in GMP e deve essere conforme all'Articolo 17 del Regolamento No. 1223/2009.

By-products

The presence of traces of the substances listed in Annex II of Regulation No. 1223/2009 (replaced Directive 76/768/EEC) (incl. cmr cat. 1A, 1B and 2 substances marked with *) shall be allowed provided that such presence is technically unavoidable in good manufacturing practice and that it conforms with Article 17 of Regulation No. 1,4-Diossano * 5.1 50 ppm maximum (on 100% active matter) 1.4-Dioxane * 5.2 Ossido di etilene * Not detectable (lower than 1 ppm) Ethylene oxide * 5.3 Solventi residui Based on our actual knowledge of our production process, raw materials and Residual solvents equipment used, no solvent is used in the manufacturing process, only water 5.4 Monomeri residui Based on information concerning the raw materials, production process and equipment Residual monomers used they are not likely to be present. 5.5 **Ammine** Based on information concerning the raw materials, production process and equipment **Amines** used they are not likely to be present. 5.6 **Nitrosammine** Based on information concerning the raw materials, production process and equipment **Nitrosamines** used they are not likely to be present. 5.7 Metalli pesanti Arsenic (As) < 2 ppm, Antimony (Sb) < 2 ppm, Lead (Pb) < 2 ppm, Cadmium (Cd) < 2 ppm, Heavy metals Mercury (Hg) < 1 ppm, Nickel (Ni) < 1 ppm, Chromium (Cr) < 1 ppm, Total heavy metals (as Fe) < 5 ppm Heavy metals are determined with atomic adsorption in a random way. 5.8 Acido monocloroacetico Based on information concerning the raw materials, production process and equipment Monochloroacetic acid used it is not likely to be present. 5.9 Acido dicloroacetico Based on information concerning the raw materials, production process and equipment Dichloroacetic acid used it is not likely to be present. 5.10 Allergeni Based on information concerning the raw materials, production process and equipment

	Allergens	used fragrance allergens as of EU Regulation 1223/2009 Annex III, No. 67-92 are not likely to be present.
5.11	Altri (e.g. CMR) Others (e.g. CMR)	Sodium sulfate: 0.5% maximum Laureth-2 (unsulfated matter): 1.0% maximum Based on information concerning the raw materials, production process and equipment used CMR substances according to Annex VI of the CLP Regulation (EC) 1272/2008 are: dioxane (CMR2) as impurity technically unavoidable even working in GMP (50 ppm maximum on 100% a.m.)
6.	Tossicologia Toxicology	
6.1	Informazioni sulla tossicità acuta Information on acute toxicity	- LD50 (oral) > 2870 mg/kg bw (from literature, OECD 401, 1986) - LD50 (dermal) > 2000 mg/kg bw (from literature, OECD 402, 2012)
6.2	Informazioni sull'irritazione cutanea Information on skin irritation	- Product as it is = Irritant (from literature, OECD 404, 1994)
6.3	Informazioni sull'irritazione oculare Information on irritation of the mucous membrane	- Product as it is = Irritant (from literature, OECD 405, 1980)
6.4	Informazioni sulla sensibilizzazione Information on sensitisation potential	- Product as it is = Not sensitizing (from literature, OECD 406, 1986)
6.5	Informazioni sulla genotossicità Information on gene toxicity	- Ames test = Negative (from literature, OECD 476, 1995)
6.6	Informazioni sull'assorbimento percutaneo Information on percutaneous permeation	0.2%-2% sol. on rats < 1% (Black, J. Soc. Cosmet. Chem. 30, 157-165, 1979)
6.7	Altri (e.g. NOAEL)	-NOAEL (oral) = > 225 mg/kg bw/day (from literature, OECD 408, 1994) - NOAEL (oral) = > 68 mg/kg bw/day (from

	Others (e.g. NOAEL)	literature, OECD 411, 1978)
7.	Ecotossicità Ecology	
7.1	Degradabilità/Eliminazione Degradability/Elimination	Aerobic: readily biodegradable (our test SAM2467-2i dated 04.10.05) Anaerobic: anaerobic biodegradable (Ecolabel DID List)
7.2	Tossicità acquatica acuta Acute aquatic toxicity	- LC50 on Fish = 7,1 mg/l/96h (from literature, OECD 203, 1994) - EC50 on Daphnia = 7.2 mg/l, 48h (from literature, OECD 202, 1993) - EC50 on Algae = 27,7mg/l, 72h (literature data, 1993) - NOEC chronic on Fish = 0,14 mg/l, 28d (from literature, OECD 215, 1995) - NOEC chronic on Daphnia = 0.18 mg/l, 21d (OECD 211, literature data)
7.3	Altri Others	/
8.	Informazioni aggiuntive (Per i dettagli sulle specifiche vedere il bollettino tecnico allegato; per i dettagli sull'etichettatura e la classificazione vedere la scheda di sicurezza allegata.) Additional information (For details on specification see enclosed instruction sheet; for details on labelling and classification see enclosed safety data sheet.)	
	Dichiarazione BSE BSE statement	The product is not from animal origin. Furthermore it doesn't contain any ingredient of animal origin, it is not produced using ingredients of animal origins and it doesn't come into contact with animal origin ingredients at any stage of its production. It is therefore BSE free.
	Dichiarazione test animali Non-animal testing declaration	ZSCHIMMER & SCHWARZ ITALIANA has never made or commissioned animal tests on this product for cosmetic reasons.
	Glicol eteri Glycol ethers	Not added and not expected

Ftalati, DINP (diisononyl phtalate) Phtalates, DINP (diisononil ftalato) Based on information concerning the raw materials, production process and equipment used phthalates listed in EU Regulation 1223/2009 Annex II are not likely to be present.

Glutine Gluten Not added and not expected

Formaldeide Formaldehyde (Formol) Not added, but in general one has to accept that formaldehyde can be present in lower concentrations in ethoxylated products. Our random tests show values lower than 5 ppm. On the other hand, it is known from the literature that formaldehyde may be formed even out of high purity polyethylene oxide surfactants, if they are stored at temperatures above 8°C and if oxygen out of the air can penetrate into the material. (M. Bergh, K. Magnusson, J. Lars G. Nilsson, A. T. Karlberg, Contact Dermatitis, 1998, 39, 14-20 and M. Donbrow in: Nonionic Surfactants, Physical Chemistry, New York Surf. Sci. Series Vol. 23/1987, p. 1011-1073).

VOC VOC compounds

The product doesn't contain any of the substances that are classified as VOC according to "Ordonnance sur taxe d'incitation sur les composes organiques volatils (OCOV) du 12 novembre 1997".

Fitofarmaci
Plant protection products

Based on information concerning the raw materials, production process and equipment used pesticides are not likely to be present.

Insetticidi/Insecticides

Based on information concerning the raw materials, production process and equipment used insecticides is not expected to be present and no insecticides has been used.

Fenolo/Phenol

Based on information concerning the raw materials, production process and equipment used phenol is not expected to be present and no phenol has been used.

APEO, cloroparaffine, composti organici alogenati APEOs, chloroparaffines, AOX

Based on information concerning the raw materials, production process and equipment used they are not likely to be present.

Mercaptani

Not added and not expected

Mercaptanes

Melamine Melamine

Lattosio Lactose

Aflatossine/Micotossine Aflatoxines/Mycotoxines

Lattice Latex

Nitrati e Nitriti Nitrates and Nitrites

Amine aromatiche Aromatic amines

Coloranti azoici Azo dyes

PBT/vPvB PBT/vPvB

Materiale radioattivo Radioactive material

Nanomateriali Nanomaterials

Idrocarburi Policiclici Aromatici Plycyclic Aromatic Hydrocarbons (HAP)

Grado cosmetico Cosmetic grade

Certificato Kosher

Not added and not expected

Not added and not expected

Based on information concerning the raw materials, production process and equipment used aflotoxin/mycotoxin are not likely to be present.

The product doesn't contain natural latex and that natural latex is not used/produced in any step of the production process.

Not added and not expected

Based on information concerning the raw materials, production process and equipment used aromatic amines are not likely to be present.

Based on information concerning the raw materials, production process and equipment used azo dyes are not likely to be present.

Not added and not expected

Based on information concerning the raw materials, production process and equipment used radioactive material is not expected to be present and no irradiation has been used.

The product doesn't contain any nanomaterials according to the new European Cosmetic Regulation 1223/2009/EC and any nanotechnology is used to produce it

Based on information concerning the raw materials, production process and equipment used polycyclic aromatic hydrocarbons are are not likely to be present.

The product is of cosmetic grade and it can be used in cosmetic products.

It is according Regulation 1223/2009, its annexes and its further amendments.

We are EFfCI GMP certified (certificate n° 20782).

Yes

	Kosher certificate	
	Convenzione CITES CITES Convention	Not applicable, cultivated vegetable raw materials
8.1	Data di scadenza Shelf life	The product, if well preserved and in its original sealed containers, maintains its appearance and characteristics for at least one year from delivery date. After this time, product can be used but it must be rechecked. Depending on the temperature, the pH value may decrease during storage. However the product quality is not negatively influenced above a pH value of 4.0. Nevertheless below pH 10.8 the addition of a preservative is advisable.
8.2	Stoccaggio Storage recommendation	Store at room temperature (15°C-25°C). Protect from cold and heat. At temperatures below 10°C and on prolonged storage it can become turbid. The material can be restored to its original appearance by indirect heating and stirring. This doesn't affect the quality of the product. Avoid overheating.

Data / Date 15/03/19

Queste informazioni si riferiscono solo al prodotto sopramenzionato e non possono essere considerate valide per altri prodotti o in altri processi produttivi. Le informazioni sono corrette e complete secondo le nostre attuali conoscenze e sono date in buona fede ma senza garanzia. E' responsabilità dell'utilizzatore l'assicurarsi che le informazioni siano appropriate e complete per lo specifico uso del prodotto.

This Information refers only to the above mentioned product and does not need to be valid if used with other product(s) or in any process. The information is to our best present knowledge correct and complete and is given in good faith but without warranty. It remains the user's own responsibility to make sure that the information is appropriate and complete for his specific use of this product.