

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

INFORMAZIONI TOSSICOLOGICHE TOXICOLOGICAL INFORMATION

Revisione n° Revision n° 08

1.	Informazioni generali General information	
1.1	Nome commerciale Trade name	ZETESOL LES 3/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	Sodium Laureth Sulfate
1.5	Nome INCI (CTFA) Composizione INCI (CTFA) name Composition	Sodium Laureth Sulfate: 26.5% - 27.5% Aqua: to 100%
1.6	N° EC (EINECS-/ELINCS) EC (EINECS/ELINCS) no.	Absent because polymer
1.7	N° CAS CAS no.	9004-82-4

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

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

ENCS (Europe), IECSC (China), IECIC (China, Cosmetic Ingredient), TSCA (USA), NZIoC (New Zealand), KECI (South Korea), PICCS (Philippines), AICS (Australia), DSL (Canada) and Vietnam.

Pre-registered in Turkey.

Notes: in Japan authorities currently do not require pre-market approval for cosmetic raw materials. This is also true for Brazil, South Korea, Philippines, USA (only for cosmetic raw materials).

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

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

REACh registration: absent because polymer. None of substances listed in the "candidate" list of substances of very high concern (SVHC) are contained in the product in a relevant amount.

PO 65 (California law): see points 5.1, 5.2, 5.7 and 8 for formaldehyde.

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 with 3EO (polymer). Monomer units are EO (ethylene oxide) that is not detectable in finished product and fatty alcohol. Origin from fatty alcohol: mainly palm kernel oil from Elaeis Guineenis (Malaysia and Indonesia). MW of fatty alcohol ethoxylated is 327. KOH/NaOH are used as catalysts. Fatty alcohol ethoxylated is stable with time. 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	Informazioni sul processo di produzione (descrizione generale) Information on production process (general description)	S burns in presence of air giving SO_2 $S + O_2 \longrightarrow SO_2$ SO_2 is converted in SO_3 trough a fix-bed catalyst (V_2O_5)

$SO_2 + \frac{1}{2}O_2 \rightarrow SO_3$
SO ₃ reacts with fatty alcohol ethoxylated giving an acidic intermediate that is then neutralized with NaOH
SO ₃ + ROH → ROSO ₃ H
Control: acidity number
ROSO ₃ H + NaOH → ROSO ₃ - Na+ + H ₂ O
Control: according to specifications

3.	Additives	
3.1	Conservanti/Biocidi Preservatives/Biocides	Not added and not expected
3.2	Antiossidanti Antioxidants	Not added and not expected
3.3	Solvents 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)	less than 10 cfu/g
	Total viable count (colony-forming units/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.

	1222/2000		
	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. 1223/2009.		
5.1	1,4-Diossano *	120 ppm maximum (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	
	Residual solvents	production process, raw materials and equipment used, no solvent is used in the manufacturing process, only water	
5.4	Monomeri residui	Based on information concerning the raw	
	Residual monomers	materials, production process and equipment used they are not likely to be present.	
5.5	Ammine	Based on information concerning the raw	
	Amines	materials, production process and equipment used they are not likely to be present.	
5.6	Nitrosammine	Based on information concerning the raw	
	Nitrosamines	materials, production process and equipment used they are not likely to be present.	
5.7	Metalli pesanti	Arsenic (As) < 2 ppm, Antimony (Sb) < 2 ppm,	
	Heavy metals	Lead (Pb) < 2 ppm, Cadmium (Cd) < 2 ppm, Mercury (Hg) < 1 ppm, Nickel (Ni) < 1 ppm, Chromium (Cr) < 1 ppm, Total heavy metals (as Fe) < 5 ppm	
		(Evaluated in a random system).	
5.8	Acido monocloroacetico	Based on information concerning the raw	
	Monochloroacetic acid	materials, production process and equipment used it is not likely to be present.	
5.9	Acido dicloroacetico	Based on information concerning the raw	
	Dichloroacetic acid	materials, production process and equipment used it is not likely to be present.	

5.10	Allergens	Based on information concerning the raw materials, production process and equipment used fragrance allergens as of EU Regulation 1223/2009 Annex III, No. 67-92 are not likely to be present. Based on information concerning the raw materials, production process and equipment used food allergens as of EU Directive 2000/13/EC (as amended), Annex IIIa and Regulation (EU) 1169/2011, Annex II are not likely to be present.
5.11	Altri (e.g. CMR) Others (e.g. CMR)	Sodium sulfate: 0.5% maximum Laureth-3: 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 and (EC) 2019/831 are: dioxane (CMR2) as impurity technically unavoidable even working in GMP (120 ppm maximum on 100% a.m.)

6.	Tossicologia Toxicology	
6.1	Informazioni sulla tossicità acuta Information on acute toxicity	- LD50 (on rats) > 2000 mg/kg bw (OECD 402) - LD50 > 540 mg/kg bw (active ingredient) (OECD 401)
6.2	Informazioni sull'irritazione cutanea Information on skin irritation	- Product as it is = Irritant (OECD 404) - 30%-60% on rabbit = Stark irritant (Avon, CTFA, 1972) - 25% on rabbit = Stark irritant (CPTC 1977, FDRL 1976) - 6%-10% on rabbit = Slightly irritant (Avon, 1970, IBTL 1975) - 5%-5.6% on rabbit = None irritation (Leberco Labs, 1977) - 18% on man = Slighly irritant (Avon, 1972) - 0.5% on man = Nearly none irritation (Hill Top Research, 1973)

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6.3	Informazioni sull'irritazione oculare Information on irritation of the mucous membrane	- Product as it is = Irritant (OECD 405) - Draize test = From none to stark irritation (J. of the American College of Toxicology, 2,5,15, 1983)
6.4	Informazioni sulla sensibilizzazione Information on sensitisation potential	- Product as it is = Not sensitizing (OECD 406) - 0.07%-0.19% on Guinea pigs = The product hasn't any sensitization danger (Avon, 1977 - 1978) - 14.3% sol. on man = The product hasn't any sensitization danger (CTFA, 1980)
6.5	Informazioni sulla genotossicità Information on gene toxicity	- Ames test = None mutagenic effect (our test n° 96-4086.1) - Negative (OECD 475)
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) Others (e.g. NOAEL)	NOAEL (oral, human) = 300 mg/kg bw/day DNEL (dermal route) = 1650 mg/kg bw/day (repeated dose toxicity), AF = 20 Vaginal mucous membrane irritation: - 0.28% on beagles = None irritation (Tusing Toxicol. Appl. Pharmacol., 1962, 4,402-9) - 28% on beagles = Slightly irritant (Tusing Toxicol. Appl. Pharmacol., 1962, 4,402-9) - 0.07% on beagles for 3 weeks = None irritation (CTFA, 1980) Photoirritation on man: - 0.07% (RIPT + UV) = 4 light reactions on 153 subjects (CTFA, 1980) - 0.07% (RIPT + UV) = 2 light reaction on 56 subjects (CTFA, 1980) Chronic toxicity: - Oral = Till 100 mg/kg bw/d no adverse effects (OECD 408) - Dermal = No systemic toxicity (OECD 411, 0.9% a.1.)

7.	Ecotossicità					
	Ecology					
7.1	Degradabilità/Eliminazione	Aerobic:	readily	biodegradable	(our	test

	Degradability/Elimination	SAM2467-2i dated 04.10.05) Anaerobic: anaerobic biodegradable (Ecolabel DID List)
7.2	Tossicità acquatica acuta	- LC50 on Fish = 1 - 10 mg/l, 96h (literature data)
	Acute aquatic toxicity	- EC50 on Daphnia = 7.2 mg/l, 48h (literature data) - EC50 on Algae = 7.5 mg/l, 72h (literature data) - EC10 on Pseudomonas putida = 100 mg/l (literature data) - NOEC chronic on Fish = 1 mg/l, 45d (literature data) - 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/TSE

BSE/TSE statement

Dichiarazione test animali
Non-animal testing declaration

Glicol eteri Glycol ethers

Ftalati, DINP (diisononyl phtalate)
Phtalates, DINP (diisononil ftalato)

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/TSE free.

ZSCHIMMER & SCHWARZ ITALIANA has never made or commissioned animal tests on this product for cosmetic purpose.

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

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

Formaldeide

Formaldehyde (Formol)

VOC compounds

Fitofarmaci
Plant protection products

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

Mercaptani

Mercaptanes

Melamine Melamine

Lattosio Lactose

Aflatossine/Micotossine Aflatoxines/Mycotoxines Based on information concerning the raw materials, production process and equipment used it is not likely to be present.

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 (under detection limits)

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).

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" or according to Directive 2004/42/EC.

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

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

Lattice Latex

Nitrati e Nitriti Nitrates and Nitrites

Amine aromatiche Aromatic amines

Coloranti azoici Azo dyes

Ormoni, antibiotici e steroidi Hormones, antibiotics and steroids

PBT/vPvB PBT/vPvB

Materiale radioattivo Radioactive material

Nanomateriali Nanomaterials

Idrocarburi Policiclici Aromatici
Plycyclic Aromatic Hydrocarbons (HAP)

Grado cosmetico Cosmetic grade

Certificato Kosher Kosher certificate

Convenzione CITES CITES Convention

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

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

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.

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

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

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 1881/2019/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 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.

Yes

Not applicable, cultivated vegetable raw materials

8.1	Data retest Retest date	The product, if well preserved and in its original 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 (pH and microbial contamination). 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. As product is preservative free, if pH goes under 10.8 the addition of a preservative is necessary.
8.2	Stoccaggio Storage recommendation	Store at room temperature (15°C-25°C). Protect from cold and heat. At temperatures lower than 10°C it can become turbid. The material can be restored to its original appearance by indirect heating at 30°C-40°C and stirring. This doesn't affect the quality of the product. Avoid overheating. Homogenize before using.
8.3	Altro Other	Specific Limits concentration for health GHS05 - Corrosive H315, H318, H412 ≥ 10%: Eye Damage 1 H318, Skin irrit. 2 H315 ≥ 5% - < 10%: Eye Irritation 2 H319 < 5%: no label

Data / Date 24/05/2021

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.