ZSCHIMMER & SCHWARZ ITALIANA S.p.A.

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

INFORMAZIONI TOSSICOLOGICHE
TOXICOLOGICAL INFORMATION

Revisione n°
Revision n° 19

1.	**Informazioni generali** ***General information***	
1.1	**Nome commerciale** ***Trade name***	**ZETESOL 270/N**
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: 68% - 73% Aqua: to 100%
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 (generic 9004-82-4)

1.8	**Registrazioni** (es. UE, USA, Giappone) - REACh - Certificazione ***Registration status*** *(e.g. EU, USA, Japan) - REACh - Certification*	IECSC (China, Chemical), IECIC (China, Cosmetic Ingredient), TSCA (USA), NZIoC (New Zealand), TCSI (Taiwan), 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 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 concentration > 0.1%. 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 and mineral origin. Fatty alcohol is from vegetable origin, then it is ethoxylated. Origin from fatty alcohol: palm kernel oil from Elaeis Guineenis (Malaysia and Indonesia). Sulfur (Europe) is synthetic and NaOH (Europe) is mineral. Product is manufactured in Italy (Tricerro).
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 $S + O_2 \rightarrow SO_2$ SO_2 is converted in SO_3 $SO_2 + ½\ O_2 \rightarrow SO_3$

	SO_3 reacts with fatty alcohol ethoxylated giving an acidic intermediate that is then neutralized with NaOH $SO_3 + ROH \rightarrow ROSO_3H$ Control: acidity number $ROSO_3H + NaOH \rightarrow ROSO_3^- Na^+ + H_2O$ Control: according to specifications

3.	**Additivi** ***Additives***	
3.1	**Conservanti/Biocidi** ***Preservatives/Biocides***	Not added and not expected
3.2	**Antiossidanti** ***Antioxidants***	Not added and not expected
3.3	**Solventi** ***Solvents***	Water
3.4	**Sbiancanti** ***Bleaching agents***	Not added and not expected
3.5	**Altri** ***Others***	Citric acid can be used to regulate pH (0% - 3%)

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. 1223/2009.*	
5.1	**1,4-Diossano *** ***1,4-Dioxane **	50 ppm maximum (on 100% active matter)
5.2	**Ossido di etilene *** ***Ethylene oxide **	Not detectable (lower than 1 ppm)
5.3	**Solventi residui** ***Residual solvents***	Based on our actual knowledge of our production process, raw materials and equipment used, no solvent is used in the manufacturing process, only water
5.4	**Monomeri residui** ***Residual monomers***	Based on information concerning the raw materials, production process and equipment used they are not likely to be present.
5.5	**Ammine** ***Amines***	Based on information concerning the raw materials, production process and equipment used they are not likely to be present.
5.6	**Nitrosammine** ***Nitrosamines***	Based on information concerning the raw materials, production process and equipment used they are not likely to be present.
5.7	**Metalli pesanti** ***Heavy metals***	Arsenic (As) < 2 ppm, Antimony (Sb) < 5 ppm, Lead (Pb) < 1 ppm, Cadmium (Cd) < 2 ppm, Mercury (Hg) < 2 ppm, Nickel (Ni) < 1 ppm, Chromium (Cr) < 2 ppm, Iron (Fe) < 5 ppm, Total heavy metals (as Fe) < 10 ppm
5.8	**Acido monocloroacetico** **Monochloroacetic acid**	Based on information concerning the raw materials, production process and equipment used it is not likely to be present.
5.9	**Acido dicloroacetico** ***Dichloroacetic acid***	Based on information concerning the raw materials, production process and equipment used it is not likely to be present.

5.10 Allergeni **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 except gluten that can't be excluded as product is obtained from it.
5.11 Altri (e.g. CMR) ***Others (e.g. CMR)***	Sodium sulfate: 3% maximum (100% a.m.) Laureth-2 (unsulfated matter): 3% maximum (100% a.m.) Sodium chloride: 1% 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 (50 ppm max 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***	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)** ***Others (e.g. NOAEL)***	NOAEL (oral) ≥ 225 mg/kg bw/day (from literature OECD 408, 1986) NOEL (dermal, systematic) ≥ 195 mg/kg bw/day NOEL (dermal, local) = 68 mg/kg bw/day (from 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 (literature data, 1994) - EC50 on Daphnia = 7.4 mg/l, 48h (literature data, 1993) - EC50 on Algae = 27.7 mg/l, 72h (literature data, 1993) - NOEC chronic on Fish = 0.14 mg/l, 28d (literature data, 1995) - NOEC chronic on Daphnia = 0.18 mg/l, 21d (literature data, 1977) - NOEC on Algae = 0.95 mg/l, 72h (literature data, 1993)
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***	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.
Dichiarazione test animali ***Non-animal testing declaration***	ZSCHIMMER & SCHWARZ ITALIANA has never made or commissioned animal tests on this product for cosmetic purpose.
Glicol eteri, glicoli, alcoli (non dichiarati nei paragrafi precedenti) ***Glycol ethers, glycols, alcohols (not declared in previous paragraphs)***	Based on information concerning the raw materials, production process and equipment used they are not likely to be present.
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.
Parabeni ***Parabens***	Based on information concerning the raw materials, production process and equipment used they are not likely to be present.
Fenossietanolo ***Phenoxyethanol***	Based on information concerning the raw materials, production process and equipment used it is not likely to be present.
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).
Siliconi ***Silicons***	Based on information concerning the raw materials, production process and equipment used they are not likely to be present.

Glutine ***Gluten***	Based on information concerning the raw materials, production process and equipment used it is not likely to be present.
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" or according to Directive 2004/42/EC.
Fitofarmaci ***Plant protection products***	Based on information concerning the raw materials, production process and equipment used plant protection products are not likely to be present.
APEO, cloroparaffine, composti organici alogenati (diclorometano, triclorometano) ***APEOs, chloroparaffines, AOX (dichloromethane, trichloromethane)***	Based on information concerning the raw materials, production process and equipment used they are not likely to be present.
Mercaptani ***Mercaptanes***	Based on information concerning the raw materials, production process and equipment used they are not likely to be present.
Melamine ***Melamine***	Based on information concerning the raw materials, production process and equipment used they are not likely to be present.
Lattosio ***Lactose***	Based on information concerning the raw materials, production process and equipment used it is not likely to be present.
Aflatossine/Micotossine ***Aflatoxines/Mycotoxines***	Based on information concerning the raw materials, production process and equipment used aflotoxin/mycotoxin are not likely to be present.
Lattice ***Latex***	The product doesn't contain natural latex and that natural latex is not used/produced in any step of the production process.
Nitrati e Nitriti ***Nitrates and Nitrites***	Based on information concerning the raw materials, production process and equipment used they are not likely to be present.
Amine aromatiche ***Aromatic amines***	Based on information concerning the raw materials, production process and equipment used aromatic amines are not likely to be present.
Coloranti azoici ***Azo dyes***	Based on information concerning the raw materials, production process and equipment used azo dyes are not likely to be present.

	3-Benzilidene Canfora ***3-Benzylidene Camphor***	Based on information concerning the raw materials, production process and equipment used it is not likely to be present.
	Ormoni, antibiotici e steroidi ***Hormones, antibiotics and steroids***	Based on information concerning the raw materials, production process and equipment used they are not likely to be present.
	PBT/vPvB ***PBT/vPvB***	Based on information concerning the raw materials, production process and equipment used they are not likely to be present.
	Materiale radioattivo ***Radioactive material***	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.
	Nanomateriali ***Nanomaterials***	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
	Idrocarburi Policiclici Aromatici ***Plycyclic Aromatic Hydrocarbons (HAP)***	Based on information concerning the raw materials, production process and equipment used polycyclic aromatic hydrocarbons are not likely to be present
	Grado cosmetico ***Cosmetic grade***	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.
	Certificato Kosher ***Kosher certificate***	Yes
	Convenzione CITES ***CITES Convention***	Not applicable, cultivated vegetable raw materials
8.1	**Data di 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). 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.
8.2	**Stoccaggio** ***Storage recommendation***	Store at room temperature (15°C-25°C). Protect from cold and temperature higher than 40°C. Always homogenize before using.

Data / *Date* 23/12/2021

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.*