

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

INFORMAZIONI TOSSICOLOGICHE TOXICOLOGICAL INFORMATION

Revisione n° Revision n° 06

1.	Informazioni generali	
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	General information	
1.1	Nome commerciale	SULFETAL LA - HE
	Trade name	
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	Sulfuric acid, mono-C12-14(even numbered)-alkyl esters, ammonium salts
1.5	Nome INCI (CTFA) Composizione INCI (CTFA) name Composition	Ammonium Lauryl Sulfate: 26.5% - 27.5% Aqua: to 100%
1.6	N° EC (EINECS-/ELINCS) EC (EINECS/ELINCS) no.	931-558-1 (old number 218-793-9)
1.7	N° CAS CAS no.	90583-11-2 (old number 2235-54-3)

Registration (es. UE, USA, Giappone) - REACh Registration status (e.g. EU, USA, Japan) - REACh Rea			
r rought to 200021117000111001	1.8	Registration status (e.g. EU, USA, Japan) -	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° 08343. Product is not a biocidal according to Regulation 528/2012. The product is not a phytosanitary according to Regulation 1107/2009. REACh registration n° 01-2119519217-42-0006. None of substances listed in the "candidate" list (12 January 2017) of substances of very high concern (SVHC) are contained in the product in a relevant amount. Heavy metals are listed on PO 65 (California)
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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 synthetic origin. Fatty alcohol is from vegetable origin. It comes from coconut oil from Cocos Nucifera (South East Asia and Philippines) or palm kernel oil from Elaeis Guineenis (Malaysia and Indonesia) (RSPO suppliers). Oil is then hydrolyzed and acid so obtained hydrogenated in order to obtain fatty alcohol. We are RSPO member. NH ₃ and Sulfur are synthetic.
2.2	La materia prima deriva da organismi geneticamente modificati (OGM)?	No
	Is the starting material derived from genetically modified organisms (GMO)?	
2.3	Informazioni sul processo di produzione (descrizione generale)	S burns in presence of air giving SO₂ S + O₂ (from air) → SO₂
	Information on production process (general description)	SO₂ is converted in SO₃ SO₂ + ½ O₂ (from air) → SO₃ SO₃ reacts with fatty alcohol giving an acidic

intermediate that is then neutralized with NH₃
SO₃ + ROH → ROSO₃H
Control: acidity number
$ROSO_3H + NH_3 \longrightarrow (ROSO_3)^- NH_4^+$
Control: according to specifications

3.	Additivi	
	Additives	
3.1	Conservanti/Biocidi Preservatives/Biocides	1% of a blend made of Benzyl Alcohol (≥ 75%), Dehydroacetic Acid (5%-10%) and Water (1%- 5%)
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	Citric acid can be used to regulate pH

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. 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	
5.1	1,4-Diossano * 1,4-Dioxane *	Based on information concerning the raw materials, production process and equipment used it is not likely to be present.
5.2	Ossido di etilene * Ethylene oxide *	Based on information concerning the raw materials, production process and equipment used it is not likely to be present.
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 or, if used, is removed in a final step of the manufacturing process
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, 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	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

5.11	Altri (e.g. CMR)	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. Unsulfated fatty alcohol: 1% maximum
	Others (e.g. CMR)	Ammonium sulfate: 1% maximum Ammonium chloride: 0.5% 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 not likely to be present.
6.	Tossicologia Toxicology	
6.1	Informazioni sulla tossicità acuta Information on acute toxicity	LD50 on rats > 2000 mg/kg (OECD 402)
6.2	Informazioni sull'irritazione cutanea Information on skin irritation	From light irritant to strong irritant according to concentration and application way (CIR data)
6.3	Informazioni sull'irritazione oculare Information on irritation of the mucous membrane	- Draize test, sol. 2% = Lightly irritant after 1 hour and not irritant after 7 days (J. of the American College of Toxicology, Vol. 2, n° 7, 1983) - Draize test, sol. 10% = Medium irritant after 24 hours and light irritant after 7 days (J. of the American College of Toxicology, Vol. 2, n° 7, 1983) - Draize test, sol. 20% = Strong irritant after 1 day and light irritant after 7 days (J. of the American College of Toxicology, Vol. 2, n° 7, 1983)
6.4	Informazioni sulla sensibilizzazione Information on sensitisation potential	Kligman & Magnusson Test = Not sensitizing (J. of the American College of Toxicology, Vol. 2, n° 7, 1983)
6.5	Informazioni sulla genotossicità Information on gene toxicity	Ames test = None mutagenic effect (data taken from studies on lauryl sulfates)

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6.6	Informazioni sull'assorbimento percutaneo Information on percutaneous permeation	Data from Sodium Lauryl Sulfate. Both products have in fact similar chemical structure. - The presence of a strongly anionic terminal group in the surfactant reduces its skin penetration capacity (CIR: Prottley, J. Soc. Cosmet. Chem. 26, 29-46, 1975) - In vitro, rat, 0.5 ml, sol. 25 mM: none measurable penetration till 24h after contact, 30% of marked in rinsing-off and 70% on skin after 24h (CIR: Howes J. Soc. Cosmet. Chem 26(1)47-63, 1975) - In vitro, human skin, 0.1 ml, sol. 25 mM: none measurable penetration till 24h and then 3.9 + 3.6 mg/cm² penetration, after 48 h 87.2 + 24.1 mg/cm² permeation (CIR: Howes J. Soc. Cosmet. Chem 26(1)47-63, 1975)
6.7	Altri (e.g. NOAEL) Others (e.g. NOAEL)	NOAEL = 300 mg/kg x bw/d (28 die, subacute, rats, oral) (value based on Sodium Lauryl Sulfate. Both molecules have in fact similar chemical structure)
7.	Ecotossicità	
	Ecology	
7.1	Degradabilità/Eliminazione Degradability/Elimination	Aerobic: readily biodegradable (our test SAM2467-4i dated 04.10.05 made on Sodium Lauryl Sulfate. Both molecules have in fact similar chemical structure) Anaerobic: anaerobic biodegradable (Ecolabel DID List n° 5 for detergent products and n° 2005 for cosmetics)
7.2	Tossicità acquatica acuta Acute aquatic toxicity	- LC50 on Fish = 3.6 mg/l/96h - EC50 on Daphnia = 7.1 mg/l/48h - EC50 on Algae = 20 mg/l/72h
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

Dichiarazione test animali Non-animal testing declaration

Glicol eteri Glycol ethers

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

Etanolo **Ethanol**

Glutine Gluten

Formaldeide

Formaldehyde (Formol)

VOC

VOC compounds

Pesticidi **Pesticides**

APEO, cloroparaffine, composti organici alogenati

APEOs, chloroparaffines, AOX

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 into contact with animal ingredients at any stage of its production. It is therefore BSE free.

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

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.

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

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

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

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".

Based on information concerning the raw materials, production process and equipment used pesticides are expected to conform with concentration limits of the European Pharmacopeia: Section 2.8.13 "Pesticides residues", Table 2.8.13.-1

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

Mercaptani 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

Ormoni, antibiotici e steroidi Hormones, antibiotics and steroids

PBT/vPvB PBT/vPvB

Materiale radioattivo Radioactive material

Nanomateriali Nanomaterials 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 it is not likely to be present.

Based on information concerning the raw materials, production process and equipment used aflotoxin/mycotoxin are expected to conform with the concentration limits of Regulation (EC) 1881/2006 Annex, Section 2.1.5

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 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 expected to conform to concentration limits of Regulation (EC) 1881/2006 Annex Benzo[a]pyrene $\leq 1~\mu g/kg$ Dibenz[a,h]anthracene $\leq 1~\mu g/kg$ Cyclopenta[cd]pyrene \rangle Benzofluoranthene[b+j+k] \rangle Indeno[1,2,3-cd]pyrene \rangle $\Sigma \leq 5~\mu g/kg$ Anthanthrene \rangle Benzo[b]naphtho[2,1-d]thiophene \rangle Benz[a]anthracene \rangle Chrysene + Triphenylene \rangle $\Sigma \leq 20~\mu g/kg$ Benzo[ghi]perylene
	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 (certificate n° 20782).
	Certificato Kosher Kosher certificate	Yes
	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 containers, maintains its appearance and characteristics for at least six months from delivery date. After this time, product can be used but it must be rechecked. According to temperature, pH can decrease. This doesn't affect the quality of the product till pH is higher than 4.0. With time a yellowing process due to preservative can develope. The colour is guaranteed only at the production moment.
8.2	Stoccaggio Storage recommendation	Store at room temperature (15°C-25°C). At temperatures lower than 10°C the product 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.

Data / Date 28/06/17

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.