

Safety data sheet

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

1.1. Product identifier

Code: 20523#086
Product name: ZETESOL MGS/K100
Chemical name and synonym: Blend of Alcohols, C12-14 (even-numbered), ethoxylated, magnesium salts, < 2.5 mol EO (Magnesium Laureth Sulfate) (and) Disodium Laureth Sulfosuccinate in water

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

Intended use: Blend of anionic surfactants, used in cosmetic and detergency field, in industrial, building, leather and textile sectors.

1.3. Details of the supplier of the safety data sheet

Name: Zschimmer & Schwarz Italiana S.p.a.
Full address: via A. Ariotto, 1/C
District and Country: 13038 Tricerro (VC) Italia
Tel.: 0039 0161 808111
Fax: 0039 0161 801002
e-mail address of the competent person responsible for the Safety Data Sheet: e.merlo@zschimmer-schwarz.com

1.4. Emergency telephone number

For urgent inquiries refer to: 800 452661

SECTION 2. Hazards identification.

2.1. Classification of the substance or mixture.

The product is classified as hazardous pursuant to the provisions set forth in EC Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of EC Regulation 1907/2006 and subsequent amendments.

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

2.1.1. Regulation 1272/2008 (CLP) and following amendments and adjustments.

Hazard classification and indication:

Eye Dam. 1 H318
Skin Irrit. 2 H315

2.1.2. 67/548/EEC and 1999/45/EC Directives and following amendments and adjustments.

Danger Symbols: Xi

R phrases: 36/38

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

2.2. Label elements.

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

Hazard pictograms:



ZETESOL MGS/K100**SECTION 2. Hazards identification. ... / >>**

Signal words: Danger

Hazard statements:

H318 Causes serious eye damage.
H315 Causes skin irritation.

Precautionary statements:

P264 Wash skin and eyes thoroughly after handling.
P280 Wear protective gloves / protective clothing / eye protection / face protection.
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332+P313 If skin irritation occurs: Get medical advice / attention.
P333+P313 If skin irritation or rash occurs: Get medical advice / attention.
P362 Take off contaminated clothing and wash before reuse.

Contains: Methylchloroisothiazolinone (and) Methylisothiazolinone (and) Aqua

2.3. Other hazards.

Information not available.

SECTION 3. Composition/information on ingredients.**3.1. Substances.**

Information not relevant.

3.2. Mixtures.

Contains:

Identification.	Conc. %.	Classification 67/548/EEC.	Classification 1272/2008 (CLP).	
Alcohols, C12-14 (even-numbered), ethoxylated, magnesium salts, < 2.5 mol EO				
CAS.	62755-21-9	15 - 25	Xi R36/38	Eye Irrit. 2 H319, Skin Irrit. 2 H315, Aquatic Chronic 3 H412
EC.	939-578-2			
INDEX.	-			
Reg. no.	01-2119977111-42-0001			
Methylchloroisothiazolinone (and) Methylisothiazolinone (and) Aqua				
CAS.	55965-84-9	1 - 3	C R34, Xi R43, N R51/53	Skin Corr. 1B H314, Skin Sens. 1 H317, Aquatic Chronic 3 H412
EC.	220-239-6			
INDEX.	613-167-00-5			
Reg. no.	pre-registered			
Disodium Laureth Sulfosuccinate				
CAS.	39354-45-5	1 - 5	Xi R36	Eye Irrit. 2 H319
EC.	absent, polymer			
INDEX.	-			
Reg. no.	absent, polymer			
BENZYL ALCOHOL				
CAS.	100-51-6	1 - 5	Xn R20/22	Acute Tox. 4 H302, Acute Tox. 4 H332, Eye Irrit. 2A H319
EC.	202-859-9			
INDEX.	603-057-00-5			
Reg. no.	01-2119492630-38-XXXX			

Note: Upper limit is not included into the range.

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

T+ = Very Toxic(T+), T = Toxic(T), Xn = Harmful(Xn), C = Corrosive(C), Xi = Irritant(Xi), O = Oxidizing(O), E = Explosive(E), F+ = Extremely Flammable(F+), F = Highly Flammable(F),
 N = Dangerous for the Environment(N)

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. Wash immediately with plenty of water. If irritation persists, get medical advice/attention. Wash contaminated clothing before using it again.

ZETESOL MGS/K100**SECTION 4. First aid measures. ... / >>**

INHALATION: Remove to open air. In the event of breathing difficulties, get medical advice/attention immediately.

INGESTION: Get medical advice/attention. Induce vomiting only if indicated by the doctor. Never give anything by mouth to an unconscious person, unless authorised by a doctor.

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

For symptoms and effects caused by the contained substances, see chap. 11.

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

Do not breathe combustion products. The product is combustible and, when the powder is released into the air in sufficient concentrations and in the presence of a source of ignition, it can create explosive mixtures with air. Fires may start or get worse by leakage of the solid product from the container, when it reaches high temperatures or through contact with sources of ignition.

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. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

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 safety 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. Check incompatibility for container material in section 7. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

6.4. Reference to other sections.

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.**

Keep away from heat, sparks and naked flames; do not smoke or use matches or lighters. Without adequate ventilation, vapours may accumulate at ground level and, if ignited, catch fire even at a distance, with the danger of backfire. Avoid bunching of electrostatic charges. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat. Avoid leakage of the product into the environment.

7.2. Conditions for safe storage, including any incompatibilities.

Store only in the original container. Store in a well ventilated place, keep far away from sources of heat, naked flames and sparks and other sources of ignition. Keep containers away from any incompatible materials, see section 10 for details.

ZETESOL MGS/K100**SECTION 7. Handling and storage. ... / >>****7.3. Specific end use(s).**

Information not available.

SECTION 8. Exposure controls/personal protection.**8.1. Control parameters.**

Regulatory References:

United Kingdom

EH40/2005 Workplace exposure limits. Containing the list of workplace exposure limits for use with the Control of Substances Hazardous to Health Regulations (as amended). Code of Practice Chemical Agent Regulations 2011.

Éire

OEL EU

Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC.

TLV-ACGIH

ACGIH 2012

Alcohols, C12-14 (even-numbered), ethoxylated, magnesium salts, < 2.5 mol EO**Predicted no-effect concentration - PNEC.**

Normal value for the terrestrial compartment	7,5	mg/kg
Normal value in fresh water	0,014	mg/l
Normal value for water, intermittent release	0,071	mg/l
Normal value in marine water	0,0014	mg/l
Normal value for fresh water sediment	0,052	mg/kg
Normal value for marine water sediment	0,0052	mg/kg
Normal value of STP microorganisms	10000	mg/l

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers.				Effects on workers			
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral.	VND	NPI	VND	15 mg/kg				
Inhalation.	VND	NPI	VND	52 mg/m3	VND	VND	VND	175 mg/m3
Skin.	VND	NPI	79 mg/kg	1650 mg/kg	NPI	NPI	132 mg/kg	2750 mg/kg

Methylchloroisoithiazolinone (and) Methylisothiazolinone (and) Aqua**Threshold Limit Value.**

Type	Country	TWA/8h	STEL/15min
		mg/m3 ppm	mg/m3 ppm
TLV		0,076	0,23

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.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Provide an emergency shower with face and eye wash station.

HAND PROTECTION

Protect hands with category III work gloves (see standard EN 374).

The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

SKIN PROTECTION

Wear category II professional long-sleeved overalls and safety footwear (see Directive 89/686/EEC 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).

ZETESOL MGS/K100**RESPIRATORY PROTECTION**

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type A filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

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.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.

SECTION 9. Physical and chemical properties.**9.1. Information on basic physical and chemical properties.**

Appearance	liquid
Colour	from colourless to yellow
Odour	characteristic
Odour threshold.	characteristic
pH.	5.5 - 6.5 (sol. 10%, 20°C)
Melting point.	< Not available.
Boiling point.	> 100 °C.
Boiling range.	Not available.
Flash point.	> 170 °C.
Evaporation Rate	Not available.
Flammability of solids and gases	not flammable
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.	1.025 - 1.045 g/ml (20°C)
Solubility	soluble in water
Partition coefficient: n-octanol/water	Not available.
Auto-ignition temperature.	Not available.
Decomposition temperature.	Not available.
Viscosity	1000 cps max (20°C)
Explosive properties	Non explosive
Oxidising properties	Non oxidant

9.2. Other information.

Molecular weight.	415
-------------------	-----

SECTION 10. Stability and reactivity.**10.1. Reactivity.**

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

BENZYL ALCOHOL: decomposes at temperatures higher than 870 °C with possibility of explosion.

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.

BENZYL ALCOHOL: may react dangerously with: hydrobromic acid and iron in the presence of heat, oxidising agents and sulphuric acid. Risk of explosion on contact with: phosphorus trichloride.

10.4. Conditions to avoid.

None in particular. However the usual precautions used for chemical products should be respected.

BENZYL ALCOHOL: avoid exposure to the air, sources of heat and naked flames.

Don't bring pH to values higher than 8, a precipitate could occur.

10.5. Incompatible materials.

BENZYL ALCOHOL: sulphuric acid, oxidising substances and aluminium.

ZETESOL MGS/K100**SECTION 10. Stability and reactivity. ... / >>****10.6. Hazardous decomposition products.**

Information not available.

SECTION 11. Toxicological information.**11.1. Information on toxicological effects.**

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification.

It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

This product may cause serious ocular lesions, cornea opacity, iris lesions, irreversible eye coloration.

Acute effects: contact with skin may cause: irritation, erythema, edema, dryness and chapped skin. Vapour inhalation may slightly irritate the upper respiratory tract. Ingestion may cause health disorders, including stomach pain and sting, nausea and sickness.

Irritant to eye and skin (as it is); Not mutagenic (Ames test); Not sensitizing.

Methylchloroisothiazolinone	(and)	Methylisothiazolinone	(and)	Aqua
LD50 (Oral).		3350 mg/kg Rat (male)		
LD50 (Dermal).		> 5000 mg/kg Rabbit		
LC50 (Inhalation).		0,33 mg/l Rat (4h)		
Disodium Laureth Sulfosuccinate				
LD50 (Oral).		> 2000 mg/kg Rat		
Alcohols, C12-14 (even-numbered), ethoxylated, magnesium salts, < 2.5 mol EO				
LD50 (Oral).		> 2000 mg/kg Rat		
BENZYL ALCOHOL				
LD50 (Oral).		1230 mg/kg Rat		
LD50 (Dermal).		2000 mg/kg Rabbit		
LC50 (Inhalation).		> 4,1 mg/l/4h Rat		

SECTION 12. Ecological information.**12.1. Toxicity.**

Methylchloroisothiazolinone	(and)	Methylisothiazolinone	(and)	Aqua
LC50 - for Fish.		0,19 mg/l/96h Oncorhynchus mykiss		
EC50 - for Crustacea.		0,126 mg/l/48h Daphnia magna		
EC50 - for Algae / Aquatic Plants.		0,003 mg/l/72h Algae		
Disodium Laureth Sulfosuccinate				
LC50 - for Fish.		> 1 mg/l/96h Fish		
EC50 - for Crustacea.		> 1 mg/l/48h Daphnia and Algae		
Alcohols, C12-14 (even-numbered), ethoxylated, magnesium salts, < 2.5 mol EO				
LC50 - for Fish.		7,1 mg/l/96h Brachydanio rerio		
EC50 - for Crustacea.		7,7 mg/l/48h Daphnia		
EC50 - for Algae / Aquatic Plants.		12 mg/l/72h Scenedesmus subspicatus		

12.2. Persistence and degradability.

Not readily biodegradable.

Readily biodegradable (according to CE 648/2004).

Readily biodegradable (according to CE 648/2004).

12.3. Bioaccumulative potential.

No bioaccumulo.

No bioaccumulo.

12.4. Mobility in soil.

Information not available.

Hazardous to the aquatic environment, chronic toxicity, category 3

ZETESOL MGS/K100**SECTION 16. Other information. ... / >>**

H302	Harmful if swallowed.
H332	Harmful if inhaled.
H314	Causes severe skin burns and eye damage.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H412	Harmful to aquatic life with long lasting effects.

Text of risk (R) phrases mentioned in section 2-3 of the sheet:

R20/22	HARMFUL BY INHALATION AND IF SWALLOWED.
R34	CAUSES BURNS.
R36	IRRITATING TO EYES.
R36/38	IRRITATING TO EYES AND SKIN.
R43	MAY CAUSE SENSITISATION BY SKIN CONTACT.
R51/53	TOXIC TO AQUATIC ORGANISMS, MAY CAUSE LONG-TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT.

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
- 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. Directive 1999/45/EC and following amendments
2. Directive 67/548/EEC and following amendments and adjustments
3. Regulation (EC) 1907/2006 (REACH) of the European Parliament
4. Regulation (EC) 1272/2008 (CLP) of the European Parliament
5. Regulation (EC) 790/2009 (I Atp. CLP) of the European Parliament
6. Regulation (EC) 453/2010 of the European Parliament
7. Regulation (EC) 286/2011 (II Atp. CLP) of the European Parliament
8. Regulation (EC) 618/2012 (III Atp. CLP) of the European Parliament
9. The Merck Index. - 10th Edition
10. Handling Chemical Safety
11. Niosh - Registry of Toxic Effects of Chemical Substances
12. INRS - Fiche Toxicologique (toxicological sheet)
13. Patty - Industrial Hygiene and Toxicology

ZETESOL MGS/K100**SECTION 16. Other information. ... / >>**

- 14. N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition
- 15. ECHA website

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.

For further information contact Green Line 800 452661

Changes to previous review:

The following sections were modified:

01 / 02 / 03 / 04 / 09 / 10 / 11 / 12 / 14 / 15 / 16.