AR-CO CHIMICA S.R.L. Revision nr. 1		
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Safety data sheet		
SECTION 1. Identification of the subs	stance/mixture and of the company/under	taking
1.1. Product identifier Product name	WOOL	
1.2. Relevant identified uses of the substance or mixture and uses advised against Intended use DETERGENT ONLY FOR INDUSTRIAL/PROFESSIONAL USING. DELICATE LIQUID DETERSIVE.		
1.3. Details of the supplier of the safety data sheet		
Name Full address District and Country	AR-CO CHIMICA S.R.L. Via Canalazzo 22/24 41036 MEDOLLA (MO) ITALY	
	Tel. +39 053558890	
	Fax +39 053558898	
e-mail address of the competent person		
responsible for the Safety Data Sheet Product distribution by	reach@arcochimica.it AR-CO CHIMICA	
1.4. Emergency telephone number For urgent inquiries refer to Numeri telefonici dei principali Centri Antiveleni italiani (attivi 24/24 ore) Centro Antiveleni di Milano 02 66101029 (CAV Ospedale Niguarda Ca` Granda -Milano) (H24) Centro Antiveleni di Pavia 0382 24444 (CAV IRCCS Fondazione Maugeri - Pavia) Centro Antiveleni di Bergamo 800 883300 (CAV Ospedale Niguniti - Bergamo) Centro Antiveleni di Firenze 055 7947819 (CAV Ospedale Careggi - Firenze) Centro Antiveleni di Roma 06 3054343 (CAV Policlinico Gemelli - Roma) Centro Antiveleni di Roma 06 49978000 (CAV Policlinico Umberto I - Roma) Centro Antiveleni di Napoli 081 7472870 (CAV Ospedale Cardarelli - Napoli) AR-CO CHIMICA +39 053558890 (ORE UFFICIO / OFFICE HOURS 08:00-12:30 / 14:00-17:30)		
SECTION 2. Hazards identification.		
2.1. Classification of the substance or mixture.		
supplements). The product thus requires a safety datash	he provisions set forth in EC Regulation 1272/2008 (CLP) neet that complies with the provisions of EC Regulation 1907/ n and/or the environment are given in sections 11 and 12 of t	2006 and subsequent amendments.

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

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R phrases: 41				
The full wording of the Risk	(R) and hazard (H) phrases	is given in section 1	6 of the sheet.	
2.2. Label elements.				
Hazard labelling pursuant to	EC Regulation 1272/2008	(CLP) and subseque	ent amendments and supplemer	its.
Hazard pictograms:				
Signal words:	Danger			
Hazard statements:				
H318 H315	Causes serious eye dama Causes skin irritation.	ge.		
Precautionary statements:				
P280 P302+P352 P310	Wear protective gloves / p IF ON SKIN: Wash with plo Immediately call a POISO	enty of soap and wa	ye protection / face protection. ter. r / physician.	
Contains:	Benzenesulfonic acid,C10	-13-alkyl derivates s	odium salt	
2.3. Other hazards.				
Information not available.				
SECTION 3. Comp	oosition/informatio	n on ingredier	nts.	
3.1. Substances.				
Information not relevant.				
3.2. Mixtures.				
Contains:				
Identification. Sodium Laureth Sulfate; ethoxylated, sulfates, soc CAS. 9004-82-4		Conc. %. 5 - 9	Classification 67/548/EEC.	Classification 1272/2008 (CLP). Eye Irrit. 2 H319, Skin Irrit. 2 H315
EC. 500-234-8		J- J		,
INDEX	40.0005			
Reg. no. 01-2119488639 Benzenesulfonic acid,C1 sodium salt				

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CAS. 68411-30-3	5 - 9	Xn R22, Xi R38, Xi R41	Acute Tox. 4 H302, Eye Dam. 1 H318, Skin Irrit. 2 H315
EC. 270-115-0			1010
INDEX			
Reg. no. 01-2119489428-22-XXXX			
COCAMIDOPROPYL BETAINE			
CAS. 61789-40-0 EC. 263-058-8	1 - 5	Xi R41	Eye Dam. 1 H318
INDEX			
Reg. no. 01-2119489410-39-0001			
POTASSIUM COCOATE			
CAS. 61789-30-8 EC. 263-049-9	1 - 5	Xi R36/38	Eye Irrit. 2 H319, Skin Irrit. 2 H315
INDEX			
Alcol grasso alcossilato			
CAS EC	1 - 5	Xi R36/38	Eye Irrit. 2 H319, Skin Irrit. 2 H315
INDEX			
ALCOOL ETOSSILATO			
CAS. 61827-42-7 EC	1 - 5	Xn R22, Xi R41	Acute Tox. 4 H302, Eye Dam. 1 H318
INDEX			
COCAMIDE DEA			
CAS. 68603-42-9 EC	1 - 5	Xi R38, Xi R41	Eye Dam. 1 H318, Skin Irrit. 2 H315
INDEX			

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 30-60 minutes, opening the eyelids fully. Get medical advice/attention.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention.

INGESTION: Have the subject drink as much water as possible. Get medical advice/attention. Do not induce vomiting unless explicitly authorised by a doctor.

INHALATION: Get medical advice/attention immediately. Remove victim to fresh air, away from the accident scene. If the subject stops breathing, administer artificial respiration. Take suitable precautions for rescue workers.

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.

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SECTION 5. Firefighting measures.

5.1. Extinguishing media.

SUITABLE EXTINGUISHING EQUIPMENT

Extinguishing substances are: carbon dioxide, foam, chemical powder. For product loss or leakage that has not caught fire, water spray can be used to disperse flammable vapours and protect those trying to stem the leak. UNSUITABLE EXTINGUISHING EQUIPMENT

Do not use jets of water. Water is not effective for putting out fires but can be used to cool containers exposed to flames to prevent explosions.

5.2. Special hazards arising from the substance or mixture.

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE Excess pressure may form in containers exposed to fire at a risk of explosion. Do not breathe combustion products.

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.

Before handling the product, consult all the other sections of this material safety data sheet. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat.

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7.2. Conditions for safe storage, including any incompatibilities.

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Keep containers away from any incompatible materials, see section 10 for details.

7.3. Specific end use(s).

Information not available.

SECTION 8. Exposure controls/personal protection.

8.1. Control parameters.

Information not available.

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 a hood visor or protective visor combined with airtight goggles (see standard EN 166).

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 B 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.

ENVIRONMENTAL EXPOSURE CONTROLS.

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

SECTION 9. Physical and chemical properties.

9.1. Information on basic physical and chemical properties.

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Appearance Colour	liquid
Odour	Opaque pink
Odour threshold.	freshly laundered note Not available.
pH. Malting point (freezing point	8,50 +/- 0,50 Not available.
Melting point / freezing point.	
Initial boiling point.	Not available.
Boiling range.	Not available.
Flash point.	Not available.
Evaporation Rate	Not available.
Flammability of solids and gases	Not available.
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.	1,020 +/- 0,025
Solubility	IN ALL PROPORTIONS
Partition coefficient: n-octanol/water	Not available.
Auto-ignition temperature.	Not available.
Decomposition temperature.	Not available.
Viscosity	Not available.
Explosive properties	Not available.
Oxidising properties	Not available.

9.2. Other information.

Information not available.

SECTION 10. Stability and reactivity.

10.1. Reactivity.

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

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.

10.4. Conditions to avoid.

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

10.5. Incompatible materials.

Information not available.

10.6. Hazardous decomposition products.

In the event of thermal decomposition or fire, gases and vapours that are potentially dangerous to health may be released.

SECTION 11. Toxicological information.

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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 trait. Ingestion may cause health disorders, including stomach pain and sting, nausea and sickness.

Alcol grasso alcossilato LD50 (Oral). > 2000 mg/Kg ratto

SECTION 12. Ecological information.

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or sewers or contaminate soil or vegetation.

12.1. Toxicity.

Alcol grasso alcossilato LC50 - for Fish. > 10 mg/l/96h EC50 - for Crustacea. > 10 mg/l/48h EC50 - for Algae / Aquatic Plants. > 10 mg/l/72h

12.2. Persistence and degradability.

Information not available.

12.3. Bioaccumulative potential.

Information not available.

12.4. Mobility in soil.

Information not available.

12.5. Results of PBT and vPvB assessment.

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%. **12.6. Other adverse effects.**

Information not available.

SECTION 13. Disposal considerations.

13.1. Waste treatment methods.

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

Avoid littering. Do not contaminate soil, sewers and waterways.

CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

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SECTION 14. Transport information.		
The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods to the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA)	by Road (ADR) and by Rail (RID), of regulations.	
SECTION 15. Regulatory information.		
15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture.		
Seveso category. None.		
Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006.		
Product. Point. 3		
Substances in Candidate List (Art. 59 REACH).		
None.		
Substances subject to authorisarion (Annex XIV REACH).		
None.		
Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:		
None.		
Substances subject to the Rotterdam Convention:		
None.		
Substances subject to the Stockholm Convention:		
None.		
Healthcare controls.		
Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment d workers' health and safety are modest and that the 98/24/EC directive is respected.	ata prove that the risks related to the	
Ingredients according to Regulation (EC) No 648/2004		
less than 5 % amphoteric surfactants		
5 % or over but less than 15 % anionic surfactants, non-ionic surfactants, soap		
optical brighteners		
perfumes, Geraniol, Limonene		
preservation agents : 1,2-benzisotiazol-3(2H)-one / 2-metil-2H-isotiazol-3-one		

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15.2. Chemical safety assessment.

No chemical safety assessment has been processed for the mixture and the substances it contains.

SECTION 16. Other information.

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Acute Tox. 4	Acute toxicity, category 4
Eye Dam. 1	Serious eye damage, category 1
Eye Irrit. 2	Eye irritation, category 2
Skin Irrit. 2	Skin irritation, category 2
H302	Harmful if swallowed.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H315	Causes skin irritation.

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

R22	HARMFUL IF SWALLOWED.
R36/38	IRRITATING TO EYES AND SKIN.
R38	IRRITATING TO SKIN.
R41	RISK OF SERIOUS DAMAGE TO EYES.

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).

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GENERAL BIBLIOGRAPHY

- 1. Directive 1999/45/EC and following amendments
- Directive 1959/48/EEC and following amendments and adjustments
 Regulation (EC) 1907/2006 (REACH) of the European Parliament
 Regulation (EC) 1272/2008 (CLP) of the European Parliament
- Regulation (EC) 790/2009 (I Atp. CLP) of the European Parliament
 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
- Handling Chemical Safety
 Niosh Registry of Toxic Effects of Chemical Substances
- 12. INRS Fiche Toxicologique (toxicological sheet)
- 13. Patty Industrial Hygiene and Toxicology
- 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.