AR-CO CH	HIMICA S.R.L.				
		Dated 18/12/2014			
BLU 5-C		Printed on 02/02/2015			
Safety data sheet					
SECTION 1. Identification of the subs	stance/mixture and of the company/under	taking			
1.1. Product identifier Product name	BLU 5-C				
Intended use DETERGENT ONLY F	1.2. Relevant identified uses of the substance or mixture and uses advised against Intended use DETERGENT ONLY FOR INDUSTRIAL / PROFESSIONAL USING. CLEANER BASED ON QUATERNARY AMMONIUM SALTS.				
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 Centro Antiveleni di Milano 02 66101029 (CAV Ospedale (H24) Centro Antiveleni di Pavia 0382 24444 (CAV IRCCS Fom Centro Antiveleni di Bergamo 800 883300 (CAV Ospedal Centro Antiveleni di Firenze 055 7947819 (CAV Ospedal Centro Antiveleni di Firenze 055 7947819 (CAV Ospedal Centro Antiveleni di Roma 06 3054343 (CAV Policlinico Centro Antiveleni di Roma 06 49978000 (CAV Policlinico Centro Antiveleni di Napoli 081 7472870 (CAV Ospedale AR-CO CHIMICA +39 053558890 (ORE UFFICIO / OFFICE HOURS 08:00-1	e Niguarda Ca` Granda -Milano) dazione Maugeri - Pavia) li Riuniti - Bergamo) e Careggi - Firenze) Gemelli - Roma) o Umberto I - Roma) e Cardarelli - Napoli)			

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:	
Skin Corr. 1B	H314
Eye Dam. 1	H318
Aquatic Acute 1	H400

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

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Xi-N R phrases: 38-41-50

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:

Signal words: Danger

Hazard statements:

H314	Causes severe skin burns and eye damage.
H400	Very toxic to aquatic life.
EUH208	Contains: PEPPERMINT OIL, CAMPHOR TREE EXT, EUCALYPTUS BLOBULUS LABILLARDIERE

May produce an allergic reaction.

Precautionary statements:

P273	Avoid release to the environment.
P280	Wear protective gloves / protective clothing / eye protection / face protection.
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P310	Immediately call a POISON CENTER or doctor / physician.
Contains:	Quaternary ammonium compounds, Benzyl-C12-16-alkyldimethyl, chlorides BRANCHED ALKYL ALCOHOL (C11-C13) ETHOXYLATES

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. Classi

Classification 1272/2008 (CLP).

				. 1 2/2014
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	Pa			1
BRANCHED ALKYL ALCOHOL (C11-C13) ETHOXYLATES CAS. 68439-54-3	5 - 9	Xn R22, Xi R41	Acute Tox. 4 H302, Eye	9 Dam. 1 H318
EC. 931-985-3 INDEX				
Reg. no. NO REGISTRATION NUMBER (POLYMER) Quaternary ammonium compounds, Benzyl-C1 16-alkyldimethyl, chlorides CAS. 68424-85-1	2- 5 - 9	C R34, Xn R21/22, N R50	Acute Tox. 4 H302, Acu 1B H314, Aquatic Acute	ute Tox. 4 H312, Skin Corr.
EC. 270-325-2			10 Ho H, Aqualic Acule	
INDEX				
Reg. no. 01-2119970550-39				
PENTABASIC SODIUM TRIPHOSPHATE				
CAS. 7758-29-4	1 - 5	Xi R36/37/38	Eye Irrit. 2 H319, Skin I H335	rrit. 2 H315, STOT SE 3
EC. 231-838-7				
INDEX				
Reg. no. 01-2119430450-54				
ISOBORNYL ACETATE				
CAS. 125-12-2 EC. 204-727-6 INDEX	1 - 5	Xi R38	Skin Irrit. 2 H315	
CAS. 84625-32-1	0 - 0.5	R10, Xn R65, Xi R43, N R51/53	Flam Lig 3 H226 Asp	. Tox. 1 H304, Skin Sens. 1
EC. 283-406-3	0-0,5		H317, Aquatic Chronic	
EC. 263-406-3 INDEX				
CAS. 8006-90-4	0 - 0.5	Xi R38, Xi R43, N R51/53	Skin Irrit. 2 H315, Skin S	Sens, 1 H317, Aquatic
EC. 308-770-2	0-0,0		Chronic 2 H411	
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+ = ExtremelyFlammable(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.

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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.

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.

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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.

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 airtight protective 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.

SECTION 9. Physical and chemical properties.

9.1. Information on basic physical and chemical properties.

Appearance

liquid

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Colour Odour Odour threshold. pH. Melting point / freezing point. Initial boiling point. Boiling range. Flash point. Evaporation Rate Flammability of solids and gases Lower inflammability limit. Upper inflammability limit. Lower explosive limit. Upper explosive limit. Vapour pressure. Vapour density	BRILLIANT BLUE BALSAMIC Not available. 8,60 +/- 0,50 Not available. Not available.
•	
•	
	Not available.
Lower explosive limit.	Not available.
Upper explosive limit.	Not available.
Vapour pressure.	Not available.
	Not available.
Relative density.	1,020 +/- 0,025
Solubility	COMPLETELY SOLUBLE IN WATER
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.

11.1. Information on toxicological effects.

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	·

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 is corrosive and causes serious burns and vesicles on the skin, which can arise even after exposure. Burns are very stinging and painful. Upon contact with eyes, it may cause serious harm, such as cornea opacity, iris lesions, irreversible eye coloration. Possible vapours are caustic for the respiratory system and may cause pulmonary edema, whose symptoms sometimes arise only after some hours.

Exposure symptoms may include: sting, cough, asthma, laryngitis, respiratory disorders, headache, nausea and sickness.

If swallowed, it may cause mouth, throat and oesophagus burns, sickness, diarrhoea, edema, larynx swelling and, consequently, asphyxia. Perforation of the gastro-intestinal tract is also possible.

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

Acute effects: stinging eyes. Symptoms may include: rubescence, edema, pain and lachrymation.

Vapour inhalation may moderately irritate the upper respiratory trait. Contact with skin may cause slight irritation.

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

SECTION 12. Ecological information.

This product is dangerous for the environment and highly toxic for aquatic organisms. **12.1. Toxicity.**

Quaternary ammonium compounds, Benzyl-C12-16-alkyldimethyl, chlorides EC50 - for Crustacea.

0,02 mg/l/48h

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.

Waste transportation may be subject to ADR restrictions.

CONTAMINATED PACKAGING

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

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BECTIC	ON 14. Transport informa	ation.		
Code of ir origina	f International Carriage of Dangeron I packagings or in packagings made	us Goods by Road (ADR) ar of materials resistant to the	nd in all the applicable nation ir content and not reacting of	to the provisions set out in the current edition onal regulations. These goods must be packed dangerously with it. People loading and unloadir must be taken in case of emergency situations.
oad and	l rail transport:			
	ADR/RID Class:	8	UN:	1760
V	Packing Group:	II		
	Label:	8		
	Nr. Kemler:	80		
	Proper Shipping Name:	CORROSIVE L	IQUID, N.O.S.	
orriggo	hy can (chinning);			
arriage	by sea (shipping): IMO Class:	8	UN:	1760
8	Packing Group:	Ш		
	Label:	8		
	EMS:	F-A, S-B		
	Marine Pollutant.	NO		
ransport	t by air:			
	IATA:	8	UN:	1760
V	Packing Group:	II		
	Label:	8		
ECTIO	ON 15. Regulatory inform	nation.		
5.1. Safe	ety, health and environmental reg	ulations/legislation specific	; for the substance or mixt	ture.
eveso ca	ategory. 9i			
strictions	relating to the product or contained	substances pursuant to Ann	ex XVII to EC Regulation 19	007/2006.
duct.				
oint.	3			
ostances	in Candidate List (Art. 59 REACH).			
ne.				
	subject to authorisarion (Annex XIV			

None.

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:

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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 data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

Ingredients according to Regulation (EC) No 648/2004

less than 5 % phosphates, amphoteric surfactants

5 % or over but less than 15 % cationic surfactants, non-ionic surfactants

Linalool, perfumes

SECTION 16. Other information.

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

Flam. Liq. 3	Flammable liquid, category 3
Acute Tox. 4	Acute toxicity, category 4
Asp. Tox. 1	Aspiration hazard, category 1
Skin Corr. 1B	Skin corrosion, category 1B
Eye Dam. 1	Serious eye damage, category 1
Eye Irrit. 2	Eye irritation, category 2
Skin Irrit. 2	Skin irritation, category 2
STOT SE 3	Specific target organ toxicity - single exposure, category 3
Skin Sens. 1	Skin sensitization, category 1
Aquatic Acute 1	Hazardous to the aquatic environment, acute toxicity, category 1
Aquatic Chronic 2	Hazardous to the aquatic environment, chronic toxicity, category 2
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H304	May be fatal if swallowed and enters airways.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H335	May cause respiratory irritation.
H317	May cause an allergic skin reaction.
H400	Very toxic to aquatic life.

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

l		
	R10	FLAMMABLE.
	R21/22	HARMFUL IN CONTACT WITH SKIN AND IF SWALLOWED.
	R22	HARMFUL IF SWALLOWED.
	R34	CAUSES BURNS.
	R36/37/38	IRRITATING TO EYES, RESPIRATORY SYSTEM AND SKIN.
	R38	IRRITATING TO SKIN.
	R41	RISK OF SERIOUS DAMAGE TO EYES.
	R43	MAY CAUSE SENSITISATION BY SKIN CONTACT.
	R50	VERY TOXIC TO AQUATIC ORGANISMS.
	R51/53	TOXIC TO AQUATIC ORGANISMS, MAY CAUSE LONG-TERM ADVERSE
	R65	EFFECTS IN THE AQUATIC ENVIRONMENT. HARMFUL: MAY CAUSE LUNG DAMAGE IF SWALLOWED.
l		

Toxic to aquatic life with long lasting effects.

LEGEND:

H411

- 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

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11. 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.

Changes to previous review:

The following sections were modified: 02 / 08 / 11 / 12 / 15.