AR-CO C	HIMICA S.R.L.	Revision nr. 7 Dated 24/9/2014
AR	COCID	Printed on 25/09/2014 Page n. 1/10
	Safety data sheet	
SECTION 1. Identification of the sub	stance/mixture and of the company/unc	lertaking
1.1. Product identifier Product name	ARCOCID	
	nixture and uses advised against FOR INDUSTRIAL / PROFESSIONAL USING RED AND SCENTED DESCALING DETERGENT	
1.3. Details of the supplier of the safety data shee 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 itali Antiveleni di Milano 02 66101029 (CAV Ospedale Nig (H24)Centro Antiveleni di Pavia 0382 24444 (CAV IRC Pavia)Centro Antiveleni di Bergamo 800 883300 (CA Bergamo)Centro Antiveleni di Firenze 055 7947819 (Firenze)Centro Antiveleni di Roma 06 3054343 (CAV Antiveleni di Roma 06 49978000 (CAV Policlinico Um Napoli 081 7472870 (CAV Ospedale Cardarelli - Napo ORE UFFICIO / OFFICE HOURS 08:00-12:30 / 14:00-1	uarda Ca` Granda -Milano) CCS Fondazione Maugeri - V Ospedali Riuniti - CAV Ospedale Careggi - Policlinico Gemelli - Roma)Centro nberto I - Roma)Centro Antiveleni di bli)AR-CO CHIMICA+39 053558890 (
SECTION 2. Hazards identification.		
2.1. Classification of the substance or mixture.		
supplements). The product thus requires a safety datas	he provisions set forth in EC Regulation 1272/2008 (Cl heet that complies with the provisions of EC Regulation 19 th and/or the environment are given in sections 11 and 12	907/2006 and subsequent amendments.
2.1.1. Regulation 1272/2008 (CLP) and following a	mendments and adjustments.	
Hazard classification and indication: Eye Dam. 1 Skin Irrit. 2	H318 H315	
2.1.2. 67/548/EEC and 1999/45/EC Directives and f Danger Symbols:		

C R phrases: 35

AR-CO CHIMICA S.R.L.	Revision nr. 7
	Dated 24/9/2014
ARCOCID	Printed on 25/09/2014
	Page n. 2/10

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 labelling pursuant	to EC Regulation 1272/20	008 (CLP) and subse	quent amendments and supplement	nts.
Signal words:	Danger			
-	-			
H318 H315	Causes serious eye da Causes skin irritation.	amage.		
P280 P302+P352 P310	Wear protective gloves IF ON SKIN: Wash wit Immediately call a PO	th plenty of soap and		
Contains:	PHOSPHORIC ACID			
2.3. Other hazards.				
Information not available.				
SECTION 3. Con	nposition/informa	tion on ingred	ients.	
3.1. Substances.				
Information not relevant.				
3.2. Mixtures.				
Contains:				
Identification. PHOSPHORIC ACID		Conc. %.	Classification 67/548/EEC.	Classification 1272/2008 (CLP).
CAS. 7664-38-2 EC. 231-633-2		10 - 25	C R34, Note B	Skin Corr. 1B H314, Note B
INDEX. 015-011-00-6				
Reg. no. 01-21194859	24-24-0000			
Note: Upper limit is not inc	cluded into the range.			
T+ = Very Toxic(T+), T	sk (R) and hazard (H) phra = Toxic(T), Xn = Harmi ly Flammable(F), N = Dan	ful(Xn), C = Corrosi	ive(C), Xi = Irritant(Xi), O = Oxic	lizing(O), E = Explosive(E), F+ = Extremely
SECTION 4. Firs	t aid measures.			
4.1. Description of firs	t aid measures.			

AR-CO CHIMICA S.R.L.	Revision nr. 7
	Dated 24/9/2014
ARCOCID	Printed on 25/09/2014
	Page n. 3/10

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.

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.

AR-CO CHIMICA S.R.L.	Revision nr. 7
	Dated 24/9/2014
ARCOCID	Printed on 25/09/2014
	Page n. 4/10

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.

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.

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).
Éire	Code of Practice Chemical Agent Regulations 2011.
OEL EU	Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive
	2000/39/EC.
TLV-ACGIH	ACGIH 2012

PHOSPHORIC ACID Threshold Limit Value.					
Туре	Country	TWA/8h		STEL/15min	
		mg/m3	ppm	mg/m3	ppm
WEL	UK	1		2	
OEL	IRL	1		2	
OEL	EU	1		2	
TLV-ACGIH		1		3	

Legend:

(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.

8.2. Exposure controls.

AR-CO CHIMICA S.R.L.	Revision nr. 7
	Dated 24/9/2014
ARCOCID	Printed on 25/09/2014
	Page n. 5/10

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.

SECTION 9. Physical and chemical properties.

9.1. Information on basic physical and chemical properties.

Appearance Colour Odour Odour threshold.	liquid green FLORAL NOTE Not available.
pH.	0,50
Melting point / freezing point.	Not available.
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.	1,120 +/- 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.

AR-CO CHIMICA S.R.L.

Revision nr. 7

Page n. 6/10

ARCOCID

Dated 24/9/2014 Printed on 25/09/2014

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.

PHOSPHORIC ACID: decomposes at temperatures over 200°C.

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.

PHOSPHORIC ACID: risk of explosion on contact with nitromethane. May react dangerously with alkalis and sodium borohydride.

10.4. Conditions to avoid.

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

10.5. Incompatible materials.

PHOSPHORIC ACID: Metals, strong alkalis, aldehydes, sulphides and peroxides.

10.6. Hazardous decomposition products.

PHOSPHORIC ACID: phosphorus oxide.

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

PHOSPHORIC ACID LD50 (Oral). 1530 mg/kg Rat LD50 (Dermal). 2740 mg/kg Rabbit LC50 (Inhalation). > 0,85 mg/l/1h Rat

SECTION 12. Ecological information.

12.1. Toxicity. Information not available.

Revision nr. 7 Dated 24/9/2014
Printed on 25/09/2014

ARCOCID

Page n. 7/10

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.

SECTION 14. Transport information.

These goods must be transported by vehicles authorized to the carriage of dangerous goods according to the provisions set out in the current edition of the Code of International Carriage of Dangerous Goods by Road (ADR) and in all the applicable national regulations. These goods must be packed in their original packagings or in packagings made of materials resistant to their content and not reacting dangerously with it. People loading and unloading dangerous goods must be trained on all the risks deriving from these substances and on all actions that must be taken in case of emergency situations.

Road and	f rail transport: ADR/RID Class:	8	UN:	3264
, v	Packing Group:	III		
	Label:	8		
	Nr. Kemler:	80		
	Proper Shipping Name:	CORROSIVE LIQUID,	ACIDIC, INORGANIC, N.O.S.	

Carriage by sea (shipping):

	AR-C	O CHIMICA S.R	.L.	Dated 24/9/2014
		ARCOCID		Printed on 25/09/2014 Page n. 8/10
	IMO Class:	8	UN:	3264
8	Packing Group:	Ш		
	Label:	8		
	EMS:	F-A, S-B		
	Marine Pollutant.	NO		
	Proper Shipping Name:	CORROSIV	E LIQUID, ACIDIC, INORGANI	C, N.O.S.
Transpor	t by air: IATA:	8	UN:	3264
8	Packing Group:	111		
	Label:	8		
	Proper Shipping Name:	CORROSIV	E LIQUID, ACIDIC, INORGANI	C, N.O.S.
<u>Seveso c</u>				
<u>Seveso c</u>	ategory. None.			
<u>Seveso c</u> estrictions oduct. Point.	ategory. None.			
<u>Seveso c</u> estrictions oduct. Point.	ategory. None.			
Seveso c estrictions oduct. Point. ubstances	ategory. None.	substances pursuant to A		
Seveso c estrictions oduct. Point. ubstances	ategory. None. a relating to the product or contained and and and and and and and and and an	substances pursuant to A		
Seveso c estrictions oduct. Point. ubstances one. ubstances	ategory. None. a relating to the product or contained and and and and and and and and and an	substances pursuant to A	nnex XVII to EC Regulation 19	
Seveso c estrictions oduct. Point. ubstances one. ubstances	ategory. None. s relating to the product or contained s 3 s in Candidate List (Art. 59 REACH). s subject to authorisarion (Annex XIV	substances pursuant to A	nnex XVII to EC Regulation 19	
Seveso c estrictions oduct. Point. ubstances one. ubstances one.	ategory. None. s relating to the product or contained s 3 s in Candidate List (Art. 59 REACH). s subject to authorisarion (Annex XIV	substances pursuant to A REACH).	nnex XVII to EC Regulation 19	
Seveso c: estrictions oduct. Point. ubstances one. ubstances one. ubstances one.	ategory. None. a relating to the product or contained and a second se	substances pursuant to A REACH). suant to (EC) Reg. 649/20	nnex XVII to EC Regulation 19	
Seveso ci estrictions oduct. Point. ubstances one. ubstances one. ubstances one. ubstances	ategory. None. a relating to the product or contained and a second seco	substances pursuant to A REACH). suant to (EC) Reg. 649/20	nnex XVII to EC Regulation 19	
Seveso c: estrictions oduct. Point. ubstances one. ubstances one. ubstances one. ubstances one.	ategory. None. a relating to the product or contained s 3 3 a in Candidate List (Art. 59 REACH). a subject to authorisarion (Annex XIV) a subject to exportation reporting purs a subject to the Rotterdam Convention a subject to the Stockholm Convention	substances pursuant to A REACH). suant to (EC) Reg. 649/20	nnex XVII to EC Regulation 19	
Seveso ci estrictions oduct. Point. ubstances one. ubstances one. ubstances one. ubstances	ategory. None. a relating to the product or contained s 3 3 a in Candidate List (Art. 59 REACH). a subject to authorisarion (Annex XIV) a subject to exportation reporting purs a subject to the Rotterdam Convention a subject to the Stockholm Convention	substances pursuant to A REACH). suant to (EC) Reg. 649/20	nnex XVII to EC Regulation 19	

AR-CO CHIMICA S.R.L.

Revision nr. 7 Dated 24/9/2014

ARCOCID

Printed on 25/09/2014 Page n. 9/10

Ingredients according to Regulation (EC) No 648/2004

less than 5 % non-ionic surfactants

perfumes

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:

Skin Corr. 1B	Skin corrosion, category 1B
Eye Dam. 1	Serious eye damage, category 1
Skin Irrit. 2	Skin irritation, category 2
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H315	Causes skin irritation.

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

R34CAUSES BURNS.R35CAUSES SEVERE BURNS.

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

	Revision nr. 7
AR-CO CHIMICA S.R.L.	
	Dated 24/9/201

ARCOCID

ed 24/9/2014

Printed on 25/09/2014

Page n. 10/10

- WGK: Water hazard classes (German).

GENERAL BIBLIOGRAPHY

- 1. Directive 1999/45/EC and following amendments
- Directive 67/548/EEC and following amendments and adjustments
 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
- 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: 02/08/11/12/16.