	IIMICA S.R.L.	Revision nr. 1
		Dated 2/10/2014
PLU	PLUMATIC 2 Printed on 17/10/2014 Page n. 1/10	
	Safety data sheet	
SECTION 1. Identification of the subs	stance/mixture and of the company/under	rtaking
1.1. Product identifier Product name	PLUMATIC 2	
	ixture and uses advised against OR INDUSTRIAL / PROFESSIONAL USING G HYDROGEN PEROXIDE	
1.2 Details of the cumplicy of the sefects date sheet		
1.3. Details of the supplier of the safety data sheet Name	AR-CO CHIMICA S.R.L.	
Full address District and Country	Via Canalazzo 22/24 41036 MEDOLLA (MO)	
District and Country	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	i (attivi 24/24 ore)Centro
	Antiveleni di Milano 02 66101029 (CAV Ospedale Nigua (H24)Centro Antiveleni di Pavia 0382 24444 (CAV IRCCS Pavia)Centro Antiveleni di Bergamo 800 883300 (CAV O Bergamo)Centro Antiveleni di Firenze 055 7947819 (CA' Firenze)Centro Antiveleni di Roma 06 3054343 (CAV Po Antiveleni di Roma 06 49978000 (CAV Policlinico Umbe Napoli 081 7472870 (CAV Ospedale Cardarelli - Napoli)/ ORE UFFICIO / OFFICE HOURS 08:00-12:30 / 14:00-17:3	rda Ca` Granda -Milano) S Fondazione Maugeri - Ospedali Riuniti - V Ospedale Careggi - diclinico Gemelli - Roma)Centro erto I - Roma)Centro Antiveleni di AR-CO CHIMICA+39 053558890 (
SECTION 2. Hazards identification.		
2.1. Classification of the substance or mixture.		
supplements). The product thus requires a safety datash	ne 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 an	nendments 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 following amendments and adjustments. Danger Symbols: C R phrases: 20/22-35

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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.

Signal words: Danger H318 H315 Causes serious eye damage. Causes skin imitation. P280 P302-P352 IF ON SKIN: Wash with pienty of scap and water. P310 P303 IF ON SKIN: Wash with pienty of scap and water. P310 P304-P352 IF ON SKIN: Wash with pienty of scap and water. P310 P304-P352 IF ON SKIN: Wash with pienty of scap and water. P310 P304-P352 IF ON SKIN: Wash with pienty of scap and water. P310 P304-P352 IF ON SKIN: Wash with pienty of scap and water. P310 Contains: HYDROGEN PEROXIDE SOLUTION 2.3. Other hazards. Information not relevant. 3.1. Substances. Information not relevant. 3.2. Mixtures. Conc. %, Once. %, Classification 67/548/EEC. Classification 1272/2008 (CLP), PVROCEM PEROXIDE SOLUTION CAS. 7722-84-1 30 - 35 Rs. 0.R.R. C. Ros. Xn. Red02, Xn.R. Stap C. Star Tag C. Star Tag C. Star Tag C. Star Tag C. Star Tag C. Star Tag C. Note: Upper limit is not included into the range. The full wording of the Risk (R) and hazard (H) phrases is given in section 18 of the sheet. Tag Very TokeTP, Tag Tag Charler, Name Star Tag Charler, Tag Tag Charler, Name Star Tag Charler, Name Star Tag Charle	Hazard labelling pursuant to	5 EC Regulation 1272/2008	8 (CLP) and subse	equent amendments and supplemen	ts.
H315 Causes skin irritation. P280 Wear protective gloves / protective clothing / eye protection / face protection. P301 IF ON SKIN. Wash with plenty of scap and water. P310 IF ON SKIN. Wash with plenty of scap and water. P310 IF ON SKIN. Wash with plenty of scap and water. P310 IF ON SKIN. Wash with plenty of scap and water. P310 IF ON SKIN. Wash with plenty of scap and water. P310 IF ON SKIN. Wash with plenty of scap and water. P310 IF ON SKIN. Wash with plenty of scap and water. P310 If ON SKIN. Wash with plenty of scap and water. P310 If Manual Action and antipaction of the scap and water. P310 If Manual Action and scalar and	Signal words:	Danger			
P302+P352 IF ON SKIN: Wash with plenty of soap and water. P310 Immediately call a POISON CENTER or doctor / physician. Contains: HYDROGEN PEROXIDE SOLUTION 2.3. Other hazards. Information not available. SECTION 3. Composition/Information on ingredients.			nage.		
2.3. Other hazards. Information not available. SECTION 3. Composition/information on ingredients. 3.1. Substances. Information not relevant. 3.2. Mixtures. Contains: Identification. HYDROGEN PEROXIDE SOLUTION CAS. 7722-84-1 30 - 35 R 5. O R 8. C R35. Xn R2022, Note B OX. Liq. 14271, OX. Lig. 2 H272, Acute Tox. 4 H302, Acute Tox. 4 H332, Sint Corr. 14 H314, STOT SE 3 H335, Note B C. 231-785-0 INDEX. 008-003-00-9 Reg. no. 01-2119485845-22-0000 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 = Intriant(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.	P302+P352	IF ON SKIN: Wash with p	plenty of soap and	water.	
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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.	INDEX. 008-003-00-9				
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4.1. Description of first aid measures.	SECTION 4. First	aid measures.			
	4.1. Description of first a	aid measures.			

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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

Extinguishing substances are: carbon dioxide and 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

If large quantities of the product are involved in a fire, they can make it considerably worse. Do not breathe combustion products.

5.3. Advice for firefighters.

GENERAL INFORMATION

In the case of fire, use jets of water to cool the containers to prevent the risk of explosions (product decomposition and excess pressure) and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Remove all containers containing the product from the fire, if it is safe to do so.

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.

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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.

Ensure that there is an adequate earthing system for the equipment and personnel. Avoid contact with eyes and skin. Do not breathe powders, vapours or mists. Do not eat, drink or smoke during use. Wash hands after use. 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 ventilated and dry place, far away from sources of ignition. Keep containers well sealed. Keep the product in clearly labelled containers. Avoid overheating. Avoid violent blows. 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

HYDROGEN PEROXIDE SOLUTION

Threshold Limit Value. Type	Country	TWA/8h		STEL/15min	
		mg/m3	ppm	mg/m3	ppm
WEL	UK	1,4	1	2,8	2
OEL	IRL	1,5	1	3	2
TLV-ACGIH		1,4	1		

Legend:

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

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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.

SECTION 9. Physical and chemical properties.

9.1. Information on basic physical and chemical properties.

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9.2. Other information.

Information not available.

SECTION 10. Stability and reactivity.

10.1. Reactivity.

HYDROGEN PEROXIDE SOLUTION: decomposes rapidly with risk of explosion due to the effect of light, heat and contact with alkaline metals.

10.2. Chemical stability.

Information not available.

10.3. Possibility of hazardous reactions.

The product may react violently with water.

10.4. Conditions to avoid.

Avoid overheating. Prevent moisture or water from penetrating inside the containers.

HYDROGEN PEROXIDE SOLUTION: exposure to light, heat and alkaline substances.

10.5. Incompatible materials.

HYDROGEN PEROXIDE SOLUTION: flammable substances, acetone, ethanol, glycerol, organic sulphides, hydrated bases, oxidisable materials, iron, copper, bronze, chromium, zinc, lead, silver, manganese and acetic acid.

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

HYDROGEN PEROXIDE SOLUTION LD50 (Oral). 1193 mg/kg Rat

SECTION 12. Ecological information.

12.1. Toxicity. Information not available.

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12.2. Persistence and degradability.

HYDROGEN PEROXIDE SOLUTION: easily biodegradable. 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	d rail transport: ADR/RID Class:	5.1	UN:	3098
8	Packing Group:	II		
	Label:	5.1 (8)		
	Proper Shipping Name:	OXIDIZING LIQUID, C	CORROSIVE, N.O.S.	
Carriage	by sea (shipping): IMO Class:	5.1	UN:	3098

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Ö							
5.1							
`\	Packing Group:		П				
	Label:		5.1 (8)				
	EMS: Marine Pollutant.		F-A, S-Q NO				
			NO				
Transport	by air:						
	IATA:		5.1	UN:		3098	
Ö							
5.1							

	Packing Group:		П				
	Label:		5.1 (8)				
	N 15. Regulatory y, health and environme		gislation specific	for the substance or m	nixture.		
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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
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less than 5 % phosphonates

30 % and more oxygen-based bleaching agents

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:

Ox. Liq. 1	Oxidising liquid, category 1	
Ox. Liq. 2	Oxidising liquid, category 2	
Acute Tox. 4	Acute toxicity, category 4	
Skin Corr. 1A	Skin corrosion, category 1A	
Eye Dam. 1	Serious eye damage, category 1	
Skin Irrit. 2	Skin irritation, category 2	
STOT SE 3	Specific target organ toxicity - single exposure, category 3	
H271	May cause fire or explosion; strong oxidiser.	
H272	May intensify fire; oxidiser.	
H302	Harmful if swallowed.	
H332	Harmful if inhaled.	
H314	Causes severe skin burns and eye damage.	
H318	Causes serious eye damage.	
H315	Causes skin irritation.	
H335	May cause respiratory irritation.	

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

R 5	HEATING MAY CAUSE AN EXPLOSION.
R 8	CONTACT WITH COMBUSTIBLE MATERIAL MAY CAUSE FIRE.
R20/22	HARMFUL BY INHALATION AND IF SWALLOWED.
R35	CAUSES 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

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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 STEL. Shorterin exposure limit	
VOC: Volatile organic Compounds	
vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation	
WGK: Water hazard classes (German).	
GENERAL BIBLIOGRAPHY	
. Directive 1999/45/EC and following amendments	
. Directive 67/548/EEC and following amendments and adjustments	
B. 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 	
5. Regulation (EC) 453/2010 of the European Parliament	
. Regulation (EC) 286/2011 (II Atp. CLP) of the European Parliament	
8. Regulation (EC) 618/2012 (III Atp. CLP) of the European Parliament	
. The Merck Index 10th Edition 0. Handling Chemical Safety	

- Handling Chemical Safety
 Niosh Registry of Toxic Effects of Chemical Substances
- INRS Fiche Toxicologique (toxicological sheet)
 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.