AR-CC	CHIMICA S.R.L.	Revision nr. 1 Dated 15/10/2014
Р	Printed on 17/10/2014 Page n. 1/11	
	Safety data sheet	
SECTION 1. Identification of the s	ubstance/mixture and of the company	y/undertaking
1.1. Product identifier Product name	PLUMATIC 6	
	or mixture and uses advised against LY FOR INDUSTRIAL / PROFESSIONAL USING D LIQUID DETERGENT FOR LAUNDRY	
	hand a second	
1.3. Details of the supplier of the safety data s Name	AR-CO CHIMICA S.R.L.	
Full address	Via Canalazzo 22/24	
District and Country	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 Antivele Antiveleni di Milano 02 66101029 (CAV Osped (H24)Centro Antiveleni di Pavia 0382 24444 (C Pavia)Centro Antiveleni di Bergamo 800 8833 Bergamo)Centro Antiveleni di Firenze 055 794 Firenze)Centro Antiveleni di Roma 06 3054343 Antiveleni di Roma 06 49978000 (CAV Policlin Napoli 081 7472870 (CAV Ospedale Cardarelli ORE UFFICIO / OFFICE HOURS 08:00-12:30 / 1	ale Niguarda Ca` Granda -Milano) AV IRCCS Fondazione Maugeri - 00 (CAV Ospedali Riuniti - 17819 (CAV Ospedale Careggi - 3 (CAV Policlinico Gemelli - Roma)Centro ico Umberto I - Roma)Centro Antiveleni di - Napoli)AR-CO CHIMICA+39 053558890 (
SECTION 2. Hazards identification	n.	
2.1. Classification of the substance or mixture		
supplements). The product thus requires a safety d	to the provisions set forth in EC Regulation 1272/20 atasheet that complies with the provisions of EC Regula health and/or the environment are given in sections 11 a	ation 1907/2006 and subsequent amendments.
2.1.1. Regulation 1272/2008 (CLP) and following	ng amendments and adjustments.	
Hazard classification and indication:		
Skin Corr. 1B	H314	
Eve Dam, 1	H318	

נוסוד 2.1.2. 67/548/EEC and 1999/45/EC Directives and following amendments and adjustments. Danger Symbols: C R phrases: 34

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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.

Part of the second seco	
Signal words:	Danger
H314	Causes severe skin burns and eye damage.
P280 P304+P340 P310	Wear protective gloves / protective clothing / eye protection / face protection. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor / physician.
Contains:	SODIUM HYDROXIDE 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. BRANCHED ALKYL ALCOHOL (C11-C13)	Conc. %.	Classification 67/548/EEC.	Classification 1272/2008 (CLP).
ETHOXYLATES CAS. 68439-54-3 EC. 931-985-3	5 - 9	Xn R22, Xi R41	Acute Tox. 4 H302, Eye Dam. 1 H318
INDEX			
Reg. no. NO REGISTRATION NUMBER (POLYMER) SODIUM HYDROXIDE			
CAS. 1310-73-2 EC. 215-185-5	2 - 5	C R35	Met. Corr. 1 H290, Skin Corr. 1A H314
INDEX. 011-002-00-6			
Reg. no. 01-2119457892-27-0000			
SODIUM XILENESULFONATE			
CAS. 1300-72-7 EC. 215-090-9	1 - 5	Xi R36	Eye Irrit. 2 H319

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INDEX			
Reg. no. 01-2119513350-56-0003			
FATTY ALCOHOL ALKOXYLATE 8			
CAS. 61725-89-1	1 - 3	Xi R38, Xi R41, N R50	Eye Dam. 1 H318, Skin Irrit. 2 H315, Aquatic Acute 1 H400 M=1, Aquatic Chronic 3 H412
EC			
INDEX			
Reg. no. 02-2119548508-30-0000			
1-METHOXY-2-PROPANOL			
CAS. 107-98-2 EC. 203-539-1	0 - 0,5	R10, R67	Flam. Liq. 3 H226, STOT SE 3 H336
INDEX. 603-064-00-3			
Reg. no. 01-2119457435-35-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 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, 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.

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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 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. Vapours may catch fire and an explosion may occur; vapour accumulation is therefore to be avoided by leaving windows and doors open and ensuring good cross ventilation. 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. When performing transfer operations involving large containers, connect to an earthing system and wear antistatic footwear. Vigorous stirring and flow through the tubes and equipment may cause the formation and accumulation of electrostatic charges. In order to avoid the risk of fires and explosions, never use compressed air when handling. Open containers with caution as they may be pressurised. Do not eat, drink or smoke during 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 the containers sealed, in a well ventilated place, away from direct sunlight. 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.

7.3. Specific end use(s).

Information not available.

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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

mg/m3ppmmg/m3ppmWELUK2OELIRL2TLV-ACGIH2 (C)	SODIUM HYDROXIDE Threshold Limit Value. Type	Country	TWA/8h		STEL/15min	
OEL IRL 2			mg/m3	ppm	mg/m3	ppm
	WEL	UK			2	
TLV-ACGIH 2 (C)	OEL	IRL			2	
	TLV-ACGIH				2 (C)	

1-METHOXY-2-PROPANOL

Threshold Limit Value.	_					
Туре	Country	TWA/8h		STEL/15min		
		mg/m3	ppm	mg/m3	ppm	
TLV-ACGIH		369	100	553	150	
OEL	EU	375	100	568	150	SKIN
OEL	IRL	375	100	568	150	
WEL	UK	375	100	560	150	SKIN

Legend:

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

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

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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.

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.

1-METHOXY-2-PROPANOL: absorbs and disolves in water and in organic solvents, dissolves various plastic materials; it is stable but with air it may slowly form explosive peroxides.

10.2. Chemical stability.

The product is stable in normal conditions of use and storage.

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10.3. Possibility of hazardous reactions.

No hazardous reactions are foreseeable in normal conditions of use and storage.

1-METHOXY-2-PROPANOL: can react dangerously with strong oxidising agents and strong acids.

10.4. Conditions to avoid.

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

SODIUM HYDROXIDE: exposure to the air, moisture and sources of heat. 1-METHOXY-2-PROPANOL: avoid exposure to the air.

10.5. Incompatible materials.

SODIUM HYDROXIDE: strong acids, ammonia, zinc, lead, aluminium, water and flammable liquids. 1-METHOXY-2-PROPANOL: oxidising agents, strong acids and alkaline metals.

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.

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.

1-METHOXY-2-PROPANOL: the main way of entry is the skin, whereas the respiratory way is less important owing to the low vapour tension of the product. Concentrations above 100 ppm cause eye irritation, nose and oropharynx. At 1000 ppm disturbance in the equilibrium and severe eye irritation is observed. Clinical and biological examinations carried out on exposed volunteers revealed no anomalies. Acetate produces greater skin and ocular irritation on direct contact. No chronic effects have been reported in man.

SODIUM HYDROXIDE LD50 (Oral). 1350 mg/kg Rat LD50 (Dermal). 1350 mg/kg Rat

1-METHOXY-2-PROPANOL LD50 (Oral). 5300 mg/kg Rat LD50 (Dermal). 13000 mg/kg Rabbit LC50 (Inhalation). 54,6 mg/l/4h Rat

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SECTION 12. Ecological information.

12.1. Toxicity.

FATTY ALCOHOL ALKOXYLATE 8 LC50 - for Fish. > 0,1 mg/l/96h

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.

R	oad and rail transport:			
4	ADR/RID Class:	8	UN:	3267
	Packing Group:	II		
	Label:	8		
	Nr. Kemler:	80		

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	Proper Shipping Name:	CORROSIVE L	IQUID, BASIC, ORGANIC,	N.O.S.
Carriage k	by sea (shipping):	0	LINI.	2007
	IMO Class:	8	UN:	3267
8	Packing Group:	Ш		
	Label:	8		
	EMS:	F-A, S-B		
	Marine Pollutant.	NO		
Transport	by air: IATA:	8	UN:	3267
8	Packing Group:	П		
	Label:	8		
estrictions	relating to the product or containe	ed substances pursuant to Ann	ex XVII to EC Regulation 19	07/2006.
<u>roduct.</u> Point.	3			
Point.	3 in Candidate List (Art. 59 REACH	<u>D.</u>		
Point.		<u>1).</u>		
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Ingredients according to Regulation (EC) No 648/2004

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

perfumes, Geraniol, Limonene

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:

Flam. Liq. 3	Flammable liquid, category 3
Met. Corr. 1	Substance or mixture corrosive to metals, category 1
Acute Tox. 4	Acute toxicity, category 4
Skin Corr. 1A	Skin corrosion, category 1A
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
Aquatic Acute 1	Hazardous to the aquatic environment, acute toxicity, category 1
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic toxicity, category 3
H226	Flammable liquid and vapour.
H290	May be corrosive to metals.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.
H412	Harmful to aquatic life with long lasting effects.

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

R10	FLAMMABLE.
R22	HARMFUL IF SWALLOWED.
R34	CAUSES BURNS.
R35	CAUSES SEVERE BURNS.
R36	IRRITATING TO EYES.
R38	IRRITATING TO SKIN.
R41	RISK OF SERIOUS DAMAGE TO EYES.

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R50	VERY TOXIC TO AQUATIC ORGANISMS.		
R67	VAPOURS MAY CAUSE DROWSINESS AND DIZZINESS.		
GEND:			
	greement concerning the carriage of Dangerous goods by Road		
	hemical Abstract Service Number pncentration (required to induce a 50% effect)		
	intifier in ESIS (European archive of existing substances)		
LP: EC Regulati	on 1272/2008		
DNEL: Derived No			
EmS: Emergency	scnedule rmonized System of classification and labeling of chemicals		
	ational Air Transport Association Dangerous Goods Regulation		
C50: Immobilizati	ion Concentration 50%		
	al Maritime Code for dangerous goods		
	Maritime Organization		
C50: Lethal Con			
D50: Lethal dose			
	al Exposure Level ioaccumulative and toxic as REACH Regulation		
	nvironmental Concentration		
EL: Predicted ex			
	no effect concentration		
	ulation 1907/2006		
LV: Threshold Li	oncerning the international transport of dangerous goods by train mit Value		
	incentration that should not be exceeded during any time of occupational exposure.		
	-term exposure limit		
WA: Time-weigh	ted average exposure limit		
	stent and very Bioaccumulative as for REACH Regulation		
	ard classes (German).		
ENERAL BIBLIO			
	5/EC and following amendments /EEC and following amendments and adjustments		
	1907/2006 (REACH) of the European Parliament		
	1272/2008 (CLP) of the European Parliament		
	790/2009 (I Atp. CLP) of the European Parliament		
	453/2010 of the European Parliament 286/2011 (II Atp. CLP) of the European Parliament		
	618/2012 (III Atp. CLP) of the European Parliament		
The Merck Index	10th Edition		
Handling Chem			
INIOSD - REDISTR	y of Toxic Effects of Chemical Substances oxicologique (toxicological sheet)		
	al Hygiene and Toxicology		
. INRS - Fiche To	erous properties of Industrial Materials-7, 1989 Edition		
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Changes to previous review: The following sections were modified: 02 / 05 / 07 / 11 / 12 / 16.