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## Safety data sheet

## SECTION 1. Identification of the substance/mixture and of the company/undertaking

## 1.1. Product identifier

Product name INFYNITI LIPARI

## 1.2. Relevant identified uses of the substance or mixture and uses advised against

Intended use DETERGENT ONLY FOR INDUSTRIAL / PROFESSIONAL USING

DETERGENT CONCENTRATED SCENTED MAINTAINER

## 1.3. Details of the supplier of the safety data sheet

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

Product distribution by 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 Ospedali Riuniti - 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.

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.

## ${\bf 2.1.1.} \ Regulation \ {\bf 1272/2008} \ ({\bf CLP}) \ and \ following \ amendments \ and \ adjustments.$

Hazard classification and indication:

 Eye Dam. 1
 H318

 Skin Irrit. 2
 H315

 Skin Sens. 1
 H317

 Aquatic Chronic 3
 H412

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The full wording of the 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:

H318 Causes serious eye damage. H315 Causes skin irritation.

May cause an allergic skin reaction. H317

H412 Harmful to aquatic life with long lasting effects.

**EUH208** Contains:

LEMON OIL, CITRAL, CITRONELLA OIL, EUCALIPTUS CITRIODORA

May produce an allergic reaction.

Precautionary statements:

Avoid release to the environment. P273

P280 Wear protective gloves / protective clothing / eye protection / face protection.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

Immediately call a POISON CENTER or doctor / physician. P310

Contains: 2-PROPYLHEPTANOL, ETHOXYLATED, PROPOXYLATED, POLYMER

(R)-P-MENTHA-1,8-DIENE

## 2.3. Other hazards.

Information not available.

## **SECTION 3. Composition/information on ingredients.**

## 3.1. Substances.

Information not relevant.

3.2. Mixtures.

Contains:

Classification 1272/2008 (CLP). Identification. Conc. %.

2-PROPYLHEPTANOL, ETHOXYLATED,

PROPOXYLATED, POLYMER

AR-CO	Dated 04/03/2015  Printed on 24/03/2015		
INF			
			Page n. 3/13
CAS EC	9 - 30	Acute Tox. 4 H302, Eye Dam. 1 H318	
INDEX			
COCOA FATTY ACIDS, POTASSIUM SALTS			
CAS. 61789-30-8 EC. 263-049-9	5 - 9	Eye Irrit. 2 H319, Skin Irrit. 2 H315	
INDEX			
PROPAN-2-OL			
CAS. 67-63-0	5 - 9	Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336	
EC. 200-661-7			
INDEX. 603-117-00-0			
Reg. no. 01-2119457558-25			
2-BUTOXYETHANOL			
CAS. 111-76-2	1 - 5	Acute Tox. 4 H302, Acute Tox. 4 H312, Acute Tox. 4 H332, Eye Irrit. 2 H319, Skin Irrit. 2 H315	
EC. 203-905-0			
INDEX. 603-014-00-0			
Reg. no. 01-2119475108-36			
(1-idrossietilidene) acido bisfosfonico, sale			
<b>sodico</b>	1 - 5	Acute Tox. 4 H302, Eye Irrit. 2 H319	
INDEX			
Reg. no. 01-2119510382-52-0001			
(R)-P-MENTHA-1,8-DIENE			
CAS. 5989-27-5	1 - 2,5	Flam. Liq. 3 H226, Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410, Note C	
EC. 227-813-5			
INDEX. 601-029-00-7			
Reg. no. 01-2119493353-35-xxxx			
POTASSIUM HYDROXIDE			
CAS. 1310-58-3	0,5 - 1	Met. Corr. 1 H290, Acute Tox. 4 H302, Skin Corr. 1A H314	
EC. 215-181-3			
INDEX. 019-002-00-8			
Reg. no. 01-2119487136-33-0000			
1-METHOXY-2-PROPANOL			
CAS. 107-98-2 EC. 203-539-1	0,5 - 1	Flam. Liq. 3 H226, STOT SE 3 H336	
INDEX. 603-064-00-3			
Reg. no. 01-2119457435-35-xxxx			
P-MENTA-1,4 (8) -DIENE thomas			
CAS. 586-62-9	0 - 0,5	Flam. Liq. 3 H226, Asp. Tox. 1 H304, Aquatic Chronic 2 H411	
EC. 209-578-0			
INDEX			
LITSEA CUBEBA OIL			
CAS. 68855-99-2	0 - 0,5	Flam. Liq. 3 H226, Asp. Tox. 1 H304, Aquatic Chronic 2 H411	
EC. 90063-59-5			
INDEX			
EUCALIPTUS CITRIODORA			

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CAS. 85203-56-1 0 - 0,5 Asp. Tox. 1 H304, Skin Sens. 1 H317, Aquatic

EC. 286-249-8 INDEX. -

**CITRONELLA OIL** 

CAS. 8000-29-1 0 - 0,5 Asp. Tox. 1 H304, Skin Sens. 1 H317, Aquatic

Chronic 2 H411

EC. 89998-15-2 INDEX. -

P-MENTH-1-EN-8-YL ACETATE

CAS. 8007-35-0 0 - 0,5 Aquatic Chronic 2 H411

EC. 203-357-5

INDEX. -

Note: Upper limit is not included into the range.

The full wording of the hazard (H) phrases is given in section 16 of the sheet.

## **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.

## 5.3. Advice for firefighters.

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## 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.

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

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the Control of Substances Hazardous to Health Regulations (as amended).

Éire

Code of Practice Chemical Agent Regulations 2011.
Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC. OEL EU

TLV-ACGIH ACGIH 2012

<b>PROPAN</b>	-2-OL
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T							
Threshold Limit Value. Type	Country	TWA/8h		STEL/15min	STEL/15min		
		mg/m3	ppm	mg/m3	ppm		
TLV-ACGIH		492	200	983	400		
OEL	IRL		200		400	SKIN	
WEL	UK	999	400	1250	500		

## 2-BUTOXYETHANOL

Threshold Limit Value. Type	Country	TWA/8h		STEL/15min		
		mg/m3	ppm	mg/m3	ppm	
TLV-ACGIH		97	20			
OEL	EU	98	20	246	50	SKIN
OEL	IRL	98	20	246	50	SKIN
WEL	UK	123	25	246	50	SKIN

## (1-idrossietilidene) acido bisfosfonico, sale sodico Predicted no-effect concentration - PNEC.

Normal value in fresh water	136	mg/L
Normal value in marine water	0,0136	mg/L
Normal value for fresh water sediment	59	ma/Ka

## **POTASSIUM HYDROXIDE**

Threshold Limit Value.					
Туре	Country	TWA/8h		STEL/15min	
		mg/m3	ppm	mg/m3	ppm
TLV-ACGIH				2 (C)	
OEL	IRL			2	
WEL	UK			2	

## 1-MFTHOXY-2-PROPANOL

Country	TWA/8h		STEL/15min		
	mg/m3	ppm	mg/m3	ppm	
	369	100	553	150	
EU	375	100	568	150	SKIN
IRL	375	100	568	150	
UK	375	100	560	150	SKIN
	Country  EU IRL	Country TWA/8h mg/m3 369 EU 375 IRL 375	Country     TWA/8h       mg/m3     ppm       369     100       EU     375     100       IRL     375     100	Country         TWA/8h mg/m3         STEL/15min mg/m3           369         100         553           EU         375         100         568           IRL         375         100         568	Country         TWA/8h mg/m3         STEL/15min mg/m3         ppm mg/m3         ppm mg/m3         ppm           369         100         553         150           EU         375         100         568         150           IRL         375         100         568         150

Legend:

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

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified.

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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 A 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.

Product residues must not be indiscriminately disposed of with waste water or by dumping in waterways.

## **SECTION 9. Physical and chemical properties.**

## 9.1. Information on basic physical and chemical properties.

Appearance liquid Colour areen Odour **CITRUS** Odour threshold. Not available. 10,00 +/- 0,50 Not available. Melting point / freezing point. Initial boiling point. Not available. Not available Boiling range. 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 COMPLETELY SOLUBLE IN WATER

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Partition coefficient: n-octanol/water Auto-ignition temperature. Decomposition temperature. Viscosity Explosive properties Not available.

## 9.2. Other information.

Information not available.

Oxidising properties

## SECTION 10. Stability and reactivity.

## 10.1. Reactivity.

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

2-BUTOXYETHANOL: decomposes in the presence of heat.

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.

## 10.3. Possibility of hazardous reactions.

The vapours may also form explosive mixtures with the air.

POTASSIUM HYDROXIDE: attacks aluminium, tin, lead and zinc. Reacts violently with acids.

2-BUTOXYETHANOL: can react dangerously with: aluminium, oxidising agents. Forms peroxide with air.

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

## 10.4. Conditions to avoid.

Avoid overheating. Avoid bunching of electrostatic charges. Avoid all sources of ignition.

POTASSIUM HYDROXIDE: naked flames and heat.

2-BUTOXYETHANOL: avoid exposure to sources of heat and naked flames.

1-METHOXY-2-PROPANOL: avoid exposure to the air.

## 10.5. Incompatible materials.

POTASSIUM HYDROXIDE: Acids, metals, some plastics and rubber, water, halogenated hydrocarbons and maleic anhydride. 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.

POTASSIUM HYDROXIDE: When boiled, it develops phosphine. Above decomposition temperature toxic potassium oxide fumes may develop. 2-BUTOXYETHANOL: hydrogen.

## **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 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.

Upon contact with skin, this product causes sensitization (dermatitis). Dermatitis derives from skin irritation on the areas which repeatedly come into contact with the sensitizing agent. Cutaneous lesions may include: erythemas, edemas, papules, vesicles, pustules, scurvies, ulcerations and exudative phenomena, whose intensity varies according to illness seriousness and affected areas. Erythemas, edemas and exudative phenomena prevail during the acute phase. Scurfy skin, dryness, ulcerations and skin thickening prevail during the chronic phase.

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.

(1-idrossietilidene) acido bisfosfonico, sale sodico LD50 (Oral). > 2850 mg/Kg

2-PROPYLHEPTANOL, ETHOXYLATED, PROPOXYLATED, POLYMER LD50 (Oral). > 300 mg/Kg

POTASSIUM HYDROXIDE LD50 (Oral). 333 mg/kg Rat

2-BUTOXYETHANOL LD50 (Oral). 615 mg/kg Rat LD50 (Dermal). 405 mg/kg Rabbit LC50 (Inhalation). 2,2 mg/l/4h 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

PROPAN-2-OL LD50 (Oral). 4710 mg/kg Rat LD50 (Dermal). 12800 mg/kg Rat LC50 (Inhalation). 72,6 mg/l/4h Rat

## **SECTION 12. Ecological information.**

This product is dangerous for the environment and the aquatic organisms. In the long term, it have negative effects on aquatic environment. **12.1. Toxicity.** 

(1-idrossietilidene) acido bisfosfonico, sale sodico LC50 - for Fish. > 300 mg/l/96h EC50 - for Crustacea. > 500 mg/l/48h

2-PROPYLHEPTANOL, ETHOXYLATED, PROPOXYLATED, POLYMER LC50 - for Fish.
> 10 mg/l/96h Brachydanio rerio
EC50 - for Crustacea.
> 10 mg/l/48h Daphnia magna

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EC50 - for Algae / Aquatic Plants.

> 10 mg/l/72h Scenedesmus subspicatus

(R)-P-MENTHA-1,8-DIENE LC50 - for Fish. 35 mg/l/96h Oncorhynchus mykiss EC50 - for Crustacea. 0,48 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.

CONTAMINĂTED PACKAGING

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

## **SECTION 14. Transport information.**

The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

## **SECTION 15. Regulatory information.**

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture.

<u>Seveso category.</u> None.

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006.

3

Product.

Point.

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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 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 % phosphonates

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

## 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. 2	Flammable liquid, category 2
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

Asp. Tox. 1 Aspiration hazard, category 1

Skin Corr. 1A Skin corrosion, category 1A

Eye Dam. 1 Serious eye damage, category 1

Eye Irrit. 2 Eye irritation, category 2

Skin Irrit. 2Skin irritation, category 2Skin Sens. 1Skin sensitization, category 1

STOT SE 3 Specific target organ toxicity - single exposure, category 3

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Aquatic Acute 1 Hazardous to the aquatic environment, acute toxicity, category 1

Aquatic Chronic 1 Hazardous to the aquatic environment, chronic toxicity, category 1

Aquatic Chronic 2 Hazardous to the aquatic environment, chronic toxicity, category 2

Aquatic Chronic 3 Hazardous to the aquatic environment, chronic toxicity, category 3

H225 Highly flammable liquid and vapour.
H226 Flammable liquid and vapour.
H290 May be corrosive to metals.
H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H332 Harmful if inhaled.

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.

H317 May cause an allergic skin reaction.H336 May cause drowsiness or dizziness.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.
 H411 Toxic to aquatic life with long lasting effects.
 H412 Harmful to aquatic life with long lasting effects.

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

R10 FLAMMABLE.

R11 HIGHLY FLAMMABLE.

R20/21/22 HARMFUL BY INHALATION, IN CONTACT WITH SKIN AND IF SWALLOWED.

R22 HARMFUL IF SWALLOWED.
R35 CAUSES SEVERE BURNS.
R36 IRRITATING TO EYES

R36/38 IRRITATING TO EYES AND SKIN.

R38 IRRITATING TO SKIN.

R41 RISK OF SERIOUS DAMAGE TO EYES.

R43 MAY CAUSE SENSITISATION BY SKIN CONTACT.

R50/53 VERY TOXIC TO AQUATIC ORGANISMS, MAY CAUSE LONG-TERM ADVERSE

EFFECTS IN THE AQUATIC ENVIRONMENT.

R51/53 TOXIC TO AQUATIC ORGANISMS, MAY CAUSE LONG-TERM ADVERSE

EFFECTS IN THE AQUATIC ENVIRONMENT.

R52/53 HARMFUL TO AQUATIC ORGANISMS, MAY CAUSE LONG-TERM ADVERSE

EFFECTS IN THE AQUATIC ENVIRONMENT.

R65 HARMFUL: MAY CAUSE LUNG DAMAGE IF SWALLOWED.
R67 VAPOURS MAY CAUSE DROWSINESS AND DIZZINESS.

## 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

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- 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

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- 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: