AR-CO C	HIMICA S.R.L.	Revision nr. 1 Dated 31/03/2015						
INF	YNITI EIS	Printed on 31/03/2015 Page n. 1/11						
Safety data sheet								
SECTION 1. Identification of the sub	stance/mixture and of the company/under	taking						
1.1. Product identifier Product name	INFYNITI EIS							
	nixture and uses advised against FOR INDUSTRIAL / PROFESSIONAL USING ENTRATED MULTIPURPOSE DETERGENT CONCENTRAT	ED MULTIPURPOSE						
1.3. Details of the supplier of the safety data shee Name Full address District and Country	t 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	laboratorio@arcochimica.it AR-CO CHIMICA							
1.4. Emergency telephone number For urgent inquiries refer to	Numeri telefonici dei principali Centri Antiveleni italiani Antiveleni di Milano 02 66101029 (CAV Ospedale Nigua (H24)Centro Antiveleni di Pavia 0382 24444 (CAV IRCC3 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 - liclinico Gemelli - Roma)Centro rto I - Roma)Centro Antiveleni di AR-CO CHIMICA+39 053558890 (
SECTION 2. Hazards identification.								
2.1. Classification of the substance or mixture.								

The product is classified as hazardous pursuant to the provisions set forth in EC Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of EC Regulation 1907/2006 and subsequent amendments. Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

2.1.1. Regulation 1272/2008 (CLP) and following amendments and adjustments.

Hazard classification and indication:	
Flam. Liq. 3	H226
Eye Irrit. 2	H319
Skin Irrit. 2	H315

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

2.2. Label elements.

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Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

	!
Signal words:	Warning
H226 H319 H315 EUH208	Flammable liquid and vapour. Causes serious eye irritation. Causes skin irritation. Contains: (R)-P-MENTHA-1,8-DIENE May produce an allergic reaction.
P210 P233 P280 P303+P361+P353 P332+P313	Keep away from heat, spark, open flames, hot surfaces. No smoking. Keep container tightly closed. Wear protective gloves, protective clothing, eye protection and face protection. IF ON SKIN (or hair): Remove or Take off immediately all contaminated clothing. Rinse skin with wateror/ shower. If skin irritation occurs: Get medical advice / attention.

2.3. Other hazards.

Information not available.

SECTION 3. Composition/information on ingredients.

3.1. Substances.

Information not relevant.

3.2. Mixtures.

Contains:

Identification. ETHANOL	Conc. %.	Classification 1272/2008 (CLP).
CAS. 64-17-5 EC. 200-578-6	9 - 30	Flam. Liq. 2 H225
INDEX. 603-002-00-5		
Reg. no. 01-2119457610-43		
2-BUTOXYETHANOL		
CAS. 111-76-2	10 - 30	Acute Tox. 4 H302, Acute Tox. 4 H312, Acute Tox. 4 H332, Eye Irrit. 2 H319, Skin Irrit. 2 H315
EC. 203-905-0		4 11002, Eye init. 2 11010, Okin init. 2 11010
INDEX. 603-014-00-0		
Reg. no. 01-2119475108-36		
3-BUTOXY-2-PROPANOL		
CAS. 5131-66-8 EC. 225-878-4	10 - 30	Eye Irrit. 2 H319, Skin Irrit. 2 H315

AI	Revision nr. 1 Dated 31/03/2015		
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INDEX. 603-052-00-8 Reg. no. 01-2119475527-28-0001 (R)-P-MENTHA-1,8-DIENE CAS. 5989-27-5 EC. 227-813-5 INDEX. 601-029-00-7 Reg. no. 01-2119493353-35-xxxx	0 - 0,25	Flam. Liq. 3 H226, Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410, Note 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 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 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.

SKIN: Remove contaminated clothing. Wash immediately with plenty of water. If irritation persists, get medical advice/attention. Wash contaminated clothing before using it again.

INHALATION: Remove to open air. In the event of breathing difficulties, get medical advice/attention immediately.

INGESTION: Get medical advice/attention. Induce vomiting only if indicated by the doctor. Never give anything by mouth to an unconscious person, unless authorised by a doctor.

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.

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

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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

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.

SECTION 8. Exposure controls/personal protection.

8.1. Control parameters.

Regulatory References:

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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

ETHANOL

Threshold Limit Value.					
Туре	Country	TWA/8h		STEL/15min	
		mg/m3	ppm	mg/m3	ppm
WEL	UK	1920	1000		
OEL	IRL				1000
TLV-ACGIH				1884	1000

2-BUTOXYETHANOL

Country	TWA/8h		STEL/15min		
	mg/m3	ppm	mg/m3	ppm	
UK	123	25	246	50	SKIN
	97	20			
EU	98	20	246	50	SKIN
IRL	98	20	246	50	SKIN
	UK EU	mg/m3 UK 123 97 EU 98	mg/m3 ppm UK 123 25 97 20 EU 98 20	mg/m3 ppm mg/m3 UK 123 25 246 97 20 20 EU 98 20 246	mg/m3 ppm mg/m3 ppm UK 123 25 246 50 97 20 20 20 20 EU 98 20 246 50

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 and water after removing protective clothing.

Consider the appropriateness of providing antistatic clothing in the case of working environments in which there is a risk of explosion.

EYE PROTECTION

Wear airtight protective goggles (see standard EN 166).

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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.

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.

2-BUTOXYETHANOL: decomposes in the presence of heat.

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.

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ETHANOL: risk of explosion on contact with: alkaline metals, alkaline oxides, calcium hypochlorite, sulphur monofluoride, acetic anhydride (with acids), concentrated hydrogen peroxide, perchlorates, perchloric acid, perchloronitrile, mercury nitrate, nitric acid, silver and nitric acid, silver nitrate, silver nitrate

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

10.4. Conditions to avoid.

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

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

10.5. Incompatible materials.

Information not available.

10.6. Hazardous decomposition products.

In the event of thermal decomposition or fire, gases and vapours that are potentially dangerous to health may be released.

2-BUTOXYETHANOL: hydrogen.

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.

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.

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.

3-BUTOXY-2-PROPANOL LD50 (Oral). 3300 mg/kg Rat LD50 (Dermal). > 2000 mg/kg Rat

ETHANOL LD50 (Oral). > 5000 mg/kg Rat LC50 (Inhalation). 120 mg/l/4h Pimephales promelas

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

SECTION 12. Ecological information.

12.1. Toxicity.

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(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.

3-BUTOXY-2-PROPANOL: biodegradable. 12.3. Bioaccumulative potential.

3-BUTOXY-2-PROPANOL: no appreciable bioaccumulation potential (log Ko/w 1-3). 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 rail transpo		3	UN:	1993
Packing Gro	oup:	III		
Label:		3		
Nr. Kemler:		30		
Proper Ship	ping Name:	FLAMMABLE LI	QUID, N.O.S.	

Carriage by sea (shipping):

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	IMO Class:	3	UN:	1993
3	Packing Group:	Ш		
	Label:	3		
	EMS:	F-E ,	<u>S-E</u>	
	Marine Pollutant.	NO		
Transport	by air: IATA:	3	UN:	1993
V	Packing Group:	III		
	Label:	3		
SECTIC	ON 15. Regulatory in	nformation.		
15.1. Safe	ty, health and environment	al regulations/legislation speci	fic for the substance or mi	xture.
<u>Seveso ca</u>	tegory.	6		
estrictions	relating to the product or cor	ntained substances pursuant to Ar	nnex XVII to EC Regulation 1	<u>907/2006.</u>
roduct. Point.		3 - 40		
ubstances	in Candidate List (Art. 59 RE	ACH).		
one.				
ubstances	subject to authorisarion (Anr	nex XIV REACH).		
lone.				
ubstances	subject to exportation report	ing pursuant to (EC) Reg. 649/20	<u>12:</u>	
lone.				
ubstances	subject to the Rotterdam Co	nvention:		
lone.				
ubstances	subject to the Stockholm Co	nvention:		
one.				
	controls.			
ealthcare c	oosed to this chemical agent	must not undergo health checks, nd that the 98/24/EC directive is re	provided that available risk-	assessment data prove that the risks related to t
<u>ealthcare c</u> /orkers exp orkers' hea	oosed to this chemical agent	nd that the 98/24/EC directive is re	provided that available risk- espected.	assessment data prove that the risks related to t

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less than 5 % anionic surfactants

perfumes, Citral, Citronellol, Limonene, Linalool

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		
Acute Tox. 4	Acute toxicity, category 4		
Eye Irrit. 2	Eye irritation, category 2		
Skin Irrit. 2	Skin irritation, category 2		
Skin Sens. 1	1 Skin sensitization, category 1		
Aquatic Acute 1	Hazardous to the aquatic environment, acute toxicity, category 1		
Aquatic Chronic 1	ic 1 Hazardous to the aquatic environment, chronic toxicity, category 1		
H225	Highly flammable liquid and vapour.		
H226	Flammable liquid and vapour.		
H302	Harmful if swallowed.		
H312	Harmful in contact with skin.		
H332	Harmful if inhaled.		
H319	Causes serious eye irritation.		
H315	Causes skin irritation.		
H317	May cause an allergic skin reaction.		
H400	Very toxic to aquatic life.		
H410	Very toxic to aquatic life with long lasting effects.		

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 Concentrati
- 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

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- REACH: EC Regulation 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

GENERAL BIBLIOGRAPHY

- 1. Directive 1999/45/EC and following amendments
- 2. Directive 67/548/EEC and following amendments and adjustments
- 3. Regulation (EC) 1907/2006 (REACH) of the European Parliament
- Regulation (EC) 1272/2008 (CLP) of the European Parliament
 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:

02/07/11/12.