# **DILUENTE RAPIDO PLB**

Revision nr. 2

Dated 19/10/2015

Printed on 19/10/2015

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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

**DILUENTE RAPIDO PLB** 

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

Intended use Pad printing thinner.

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

**COMEC ITALIA SRL** 

Full address **PIAZZALE DEL LAVORO 149 District and Country** 

21044 CAVARIA VA

ITALIA

tel. 0331 219516 fax 0331 216161

e-mail address of the competent person

responsible for the Safety Data Sheet info@comec-italia.it EDGARDO BAGGINI Product distribution by

### 1.4. Emergency telephone number

For urgent inquiries refer to +39 0331 219516 (8.00 - 12.30 13.30 - 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.

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

Hazard classification and indication:

Flam. Liq. 3 H226 Asp. Tox. 1 H304 STOT RE 2 H373 Eye Dam. 1 H318 H315 Skin Irrit. 2 H336 STOT SE 3

### 2.1.2. 67/548/EEC and 1999/45/EC Directives and following amendments and adjustments.

Danger Symbols:

Xn

R phrases:

10-20/21/22-38-41-48/20-65-66

The full wording of the Risk (R) and 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.

Hazard pictograms:









Signal words:

Danger

### Hazard statements:

H226 Flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H373 May cause damage to organs through prolonged or repeated exposure.

Causes serious eye damage. H318

H315 Causes skin irritation.

H336 May cause drowsiness or dizziness.

**EUH066** Repeated exposure may cause skin dryness or cracking.

### Precautionary statements:

P210 Keep away from heat / sparks / open flames / hot surfaces. No smoking.

P233 Keep container tightly closed.

P264 Wash the hands thoroughly after handling.

Wear protective gloves / protective clothing / eye protection / face protection. P280 P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor / physician.

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Contains: XYLENE (MIXTURE OF ISOMERS)

CYCLOHEXANONE N-BUTYL ACETATE

### 2.3. Other hazards.

Information not available.

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

## 3.1. Substances.

Information not relevant.

# 3.2. Mixtures.

Contains:

Identification. Conc. %. Classification 67/548/EEC. Classification 1272/2008 (CLP). **N-BUTYL ACETATE** 

CAS. 123-86-4 EC. 204-658-1 R10 R66 R67 Flam. Liq. 3 H226, STOT SE 3 H336, EUH066 62 - 66

INDEX. 607-025-00-1

Reg. no. 01-2119485493-29-xxxx

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XYLENE (MIXTURE OF ISOMERS)

CAS. 1330-20-7 13,5 - 15

R10, Xn R20/21, Xn R48/20, Xn R65, Xi R36/37/38, Note C Flam. Liq. 3 H226, Acute Tox. 4 H312, Acute Tox. 4 H332, Asp. Tox. 1 H304, STOT RE 2 H373, Eye Irrit. 2 H319, Skin Irrit. 2 H315, STOT SE 3 H335, Note C

EC. 215-535-7

INDEX. 601-022-00-9

Reg. no. 01-2119488216-32xxxx 2-METHOXY-1-METHYLETHYL ACETATE

CAS. 108-65-6 R10 Flam. Liq. 3 H226 9 - 10,5

EC. 203-603-9

Reg. no. 01-2119475791-29-xxxx

**CYCLOHEXANONE** 

INDEX. 607-195-00-7

R10, Xn R20/21/22, Xi R38, Xi R41 Flam. Liq. 3 H226, Acute Tox. 4 H302, Acute Tox. CAS. 108-94-1 9 - 10,5 4 H312, Acute Tox. 4 H332, Eye Dam. 1 H318,

Skin Irrit. 2 H315

EC. 203-631-1

Reg. no. 01-2119453616-35-xxxx

**ISOBUTYL ACETATE** 

INDEX. 606-010-00-7

CAS. 110-19-0 1.5 - 2 R66, F R11, Note C Flam. Liq. 2 H225, EUH066, Note C

EC. 203-745-1

INDEX. 607-026-00-7

Reg. no. 01-2119488971-22-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.**

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### 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 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.

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

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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:

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** 

N-BUTYL ACETATE
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Threshold Limit Value. Type	Country	TWA/8h		STEL/15min		
		mg/m3	ppm	mg/m3	ppm	
OEL	IRL	710	150	950	200	
TLV-ACGIH		713	150	950	200	
WEL	UK	724	150	966	200	

ı	XYLENE (MIXTURE OF ISOMERS)								
	Threshold Limit Value.								
	Туре	Country	TWA/8h		STEL/15min				
			mg/m3	ppm	mg/m3	ppm			
ľ	OEL	IRL	221	50	442	100	SKIN		
	OEL	EU	221	50	442	100	SKIN		
	TLV-ACGIH		434	100	651	150			
	WEL	UK	220	50	441	100			
	Predicted no-effect concentration - PNEC.								
	Normal value for the terrestrial cor Normal value in fresh water Normal value for water, intermitter			2,31 0,327 0.327		mg/kg mg/l ma/l			

Normal value of STP microorganisms	
Health - Derived no-effect level - DNFI / DMFI	

Normal value in marine water

Normal value for fresh water sediment

Normal value for marine water sediment

Route of exposure	Effects on consumers. Acute local	Acute systemic	Chronic local	Chronic systemic	Effects on workers Acute local	Acute systemic	Chronic local	Chronic systemic
Oral.			VND	1,6 mg/kg/d		•		_

0,327

12,46

12,46

1,6 mg/kg/d

6,58

mg/l

mg/kg

mg/kg

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Inhalation. Skin.	174 mg/m3	174 mg/m3	VND VND	14,8 mg/m3 108 mg/kg/d	289 mg/m3 174 mg/m3	289 mg/i VND	/m3	77 mg/m3 VND	77 mg/m3 180 mg/kg
CYCLOHEXANONE									
Threshold Limit Value. Type	Country	TWA/8h		STEL/15min					
	·	mg/m3	ppm	mg/m3	ppm				
OEL	EU	40,8	10	81,6	20	SKIN	٧		
OEL	IRL	40,8	10	81,6	20	SKIN	٧		
TLV-ACGIH		80	20	201	50				
WEL	UK	41	10	82	20	SKIN	٧		
Predicted no-effect concentration	- PNEC.								
Normal value for the terrestrial co Normal value in fresh water Normal value for water, intermitte Normal value in marine water Normal value for fresh water sedi Normal value for marine water se Normal value of STP microorgani Health - Derived no-effect le	nt release ment diment sms	MEL		0,0435 0,1 1 0,01 0,512 0,0512 10		 	mg/Kg mg/l mg/l mg/l mg/kg mg/kg mg/l		
	Effects on consumers.				Effects on workers				
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	_	Chronic local	Chronic systemic
Inhalation.			VND	10 mg/m3		Systemic	J	VND	40 mg/m3
Skin.			VND	1 mg/kg				VND	4 mg/kg/d
2-METHOXY-1-METHYLETH	IYL ACETATE								
Threshold Limit Value. Type	Country	TWA/8h		STEL/15min					
- 7,5-5		mg/m3	ppm	mg/m3	ppm				
OEL	EU	275	50	550	100	SKIN	٧		
OEL	IRL	275	50	550	100	SKIN			
WEL	UK	274	50	548	100				
Predicted no-effect concentration				0.0					
Normal value for the terrestrial co Normal value in fresh water Normal value for water, intermitte Normal value in marine water Normal value for fresh water sedi Normal value for marine water se Normal value of STP microorgani	mpartment nt release ment diment sms	MEI		0,29 0,635 6,35 0,0635 3,29 0,329 100		 	mg/kg mg/l mg/l mg/kg mg/l mg/l		
Health - Derived no-effect le	Effects on	IVIEL			Effects on				
Route of exposure	consumers. Acute local	Acute systemic	Chronic local	Chronic	workers Acute local	Acute		Chronic local	Chronic
Oral.			VND	systemic 1,67 mg/kg		systemic	С		systemic
Inhalation.			VND	33 mg/m3				VND	272 mg/m3
Skin.			VND	54,8 mg/kg				VND	153,5 mg/kg
OKIII.			VIVE	04,0 mg/kg				VIVD	100,0 mg/kg
ISOBUTYL ACETATE Threshold Limit Value. Type	Country	TWA/8h mg/m3	ppm	STEL/15min mg/m3	ppm				
OEL	IRL	700	150	875	187				
TLV-ACGIH		713	150						
WEL	UK	724	150	903	187				

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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.

### 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.

Exposure levels must be kept as low as possible to avoid significant build-up in the organism. Manage personal protective equipment so as to guarantee maximum protection (e.g. reduction in replacement times).

### 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 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.

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

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

Appearance liquid
Colour colourless
Odour ketonic
Odour threshold. Not available.
pH. Not available.

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Melting point / freezing point. Not available. Initial boiling point. > 115 °C. Not available. Boiling range. > 23 °C. Flash point. **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. 12,2 mmHg Vapour density Not available. Relative density. 0,892 Kg/l Solubility Not available. Partition coefficient: n-octanol/water Not available. Auto-ignition temperature. Not available. Decomposition temperature. Not available. Not available. Viscosity Explosive properties Not available. Oxidising properties Not available.

### 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 ACETATE: stable but with the air it may slowly develop peroxides that explode with an increase in temperature.

CYCLOHEXANONE: may condense under the effect of heat to form resinous compounds. Attacks various types of plastic.

N-BUTYL ACETATE: decomposes readily with water, especially when warm.

ISOBUTYL ACETATE: decomposes under the effect of heat. Attacks various types of plastic material.

### 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.

XYLENE (MIXTURE OF ISOMERS): stable, but may develop violent reactions in the presence of strong oxidising agents such as sulphuric and nitric acids and perchlorates. May form explosive mixtures with the air.

1-METHOXY-2-PROPANOL ACETATE: may react violently with oxidising agents and strong acids and alkaline metals.

CYCLOHEXANONE: risk of explosion on contact with: hydrogen peroxide, nitric acid, heat, mineral acids. Can react violently with oxidising agents. Forms explosive mixtures with the air.

N-BUTYL ACETATE: risk of explosion on contact with: strong oxidising agents. Can react dangerously with alkaline hydroxides, potassium tert-butoxide. Forms explosive mixtures with the air.

ISOBUTYL ACETATE: risk of explosion on contact with: strong oxidising agents. Can react violently with: alkaline hydroxides, potassium tert-butoxides. Forms explosive mixtures with the air.

# 10.4. Conditions to avoid.

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

1-METHOXY-2-PROPANOL ACETATE: store in an inert atmosphere, sheletered from moisture because it hydrolises easily.

CYCLOHEXANONE: avoid exposure to sources of heat and naked flames.

N-BUTYL ACETATE: avoid exposure to moisture, sources of heat and naked flames.

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ISOBUTYL ACETATE: avoid exposure to sources of heat and naked flames.

### 10.5. Incompatible materials.

1-METHOXY-2-PROPANOL ACETATE: oxidising agents, strong acids and alkaline metals.

N-BUTYL ACETATE: water, nitrates, strong oxidising agents, acids and alkalis and potassium tert-butoxide.

ISOBUTYL ACETATE: strong oxidising agents, nitrates, strong bases and acids.

### 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.

The introduction of even small quantities of this liquid into the respiratory system in case of ingestion or vomit may cause bronchopneumonia and pulmonary edema.

This product may cause functional disorders or morphological mutations after repeated or prolonged exposure and/or may accumulate inside the human body and is thus graded as dangerous.

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.

This product contains highly volatile substances, which may cause serious depression of the central nervous system (CNS) and have negative effects, such as drowsiness, dizziness, slow reflexes, narcosis.

XYLENE (MIXTURE OF ISOMERS): has a toxic effect on the CNS (encephalopathies). Irritating to the skin, conjunctivae, cornea and respiratory apparatus.

1-METHOXY-2-PROPANOL ACETATE: 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.

N-BUTYL ACETATE:in humans the substance's vapours cause irritation to the eues and nose. In the event of repeated exposure, there is skin irritation, dermatosis (with driness and flaking of the skin) and keratitis.

XYLENE (MIXTURE OF ISOMERS) LD50 (Oral). 5627 mg/kg Rat LD50 (Dermal). > 5000 mg/kg Rabbit LC50 (Inhalation). 20 mg/l/4h Rat

2-METHOXY-1-METHYLETHYL ACETATE LD50 (Oral). > 5000 mg/kg Ratto / Rat LD50 (Dermal). > 2000 mg/kg Ratto / Rat LC50 (Inhalation). > 4345 ppm/6h Ratto / Rat

CYCLOHEXANONE LD50 (Oral). 1535 mg/Kg Ratto / Rat LD50 (Dermal). 1100 mg/Kg Coniglio / Rabbit LC50 (Inhalation). 11 mg/l/4h Ratto / Rat (4h)

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N-BUTYL ACETATE

LD50 (Oral). > 6400 mg/kg Rat

LD50 (Dermal). > 5000 mg/kg Rabbit

LC50 (Inhalation). 21,1 mg/l/4h Rat

ISOBUTYL ACETATE

LD50 (Oral). 4763 mg/Kg Coniglio / Rabbit

# **SECTION 12. Ecological information.**

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or sewers or contaminate soil or vegetation.

### 12.1. Toxicity.

XYLENE (MIXTURE OF ISOMERS)

LC50 - for Fish.

2,6 mg/l/96h Fish

EC50 - for Crustacea.

1 mg/l/48h Daphnia magna

EC10 for Algae / Aquatic Plants.

1,9 mg/l/72h Selenastrum capricornutum

## 2-METHOXY-1-METHYLETHYL ACETATE

LC50 - for Fish.

134 mg/l/96h Pesce, Oncorhynchus mykiss OECD 203

EC50 - for Crustacea.

> 500 mg/l/48h Daphnia magna

EC50 - for Algae / Aquatic Plants.

> 1000 mg/l/72h Selenastrum capricornutum OECD 201

Chronic NOEC for Fish.

47,5 mg/l Oryzias latipes 14 gg OECD 204

Chronic NOEC for Crustacea.

100 mg/l Dapnia magna 21 gg OECD 202

# CYCLOHEXANONE

EC50 - for Crustacea.

527 mg/l/96h Fish, Pimephales promelas (96h)

EC50 - for Algae / Aquatic Plants.

> 100 mg/l/72h Scenedesmus subspicatus

# N-BUTYL ACETATE

LC50 - for Fish.

18 mg/l/96h Fish

EC50 - for Crustacea.

44 mg/l/48h Daphnia Magna

### ISOBUTYL ACETATE

LC50 - for Fish.

190 mg/l/96h Fish, Leuciscus idus melanotus (48h)

EC50 - for Crustacea.

168 mg/l/48h Desmodesmus subspicatus (24h)

### 12.2. Persistence and degradability.

XYLENE (MIXTURE OF ISOMERS)

Rapidly biodegradable.

2-METHOXY-1-METHYLETHYL ACETATE

Solubility in water.

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198000 mg/l Rapidly biodegradable.

CYCLOHEXANONE Solubility in water. 86 g/l Rapidly biodegradable.

ISOBUTYL ACETATE Rapidly biodegradable.

12.3. Bioaccumulative potential.

2-METHOXY-1-METHYLETHYL ACETATE Partition coefficient: n-octanol/water. 1,2 mg/l

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 transport:

ADR/RID Class: 3 UN: 1993

Packing Group: III
Label: 3
Nr. Kemler: 30
Limited Quantity. 5 L
Tunnel restriction code. (D/E)

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Proper Shipping Name: FLAMMABLE LIQUID, N.O.S. (ISOBUTYL ACETATE; N-BUTYL ACETATE)

Special Provision: 640E

Carriage by sea (shipping):

IMO Class: 3 UN: 1993

Packing Group: III
Label: 3

EMS: F-E , <u>S-E</u>

Marine Pollutant. NO

Proper Shipping Name: FLAMMABLE LIQUID, N.O.S. (ISOBUTYL ACETATE; N-BUTYL ACETATE)

Transport by air:

IATA: 3 UN: 1993

Packing Group: III Label: 3

Cargo:

Packaging instructions: 366 Maximum quantity: 220 L

Pass.:

Packaging instructions: 355 Maximum quantity: 60 L

Special Instructions: A3

Proper Shipping Name: FLAMMABLE LIQUID, N.O.S. (ISOBUTYL ACETATE; N-BUTYL ACETATE)

# **SECTION 15. Regulatory information.**

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

Seveso category. 6

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

Product.

Point. 3 - 40

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:

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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.

### 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
Asp. Tox. 1 Aspiration hazard, category 1

STOT RE 2 Specific target organ toxicity - repeated exposure, category 2

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

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.

H304 May be fatal if swallowed and enters airways.

H373 May cause damage to organs through prolonged or repeated exposure.

H318 Causes serious eye damage.H319 Causes serious eye irritation.

H315 Causes skin irritation.

H335 May cause respiratory irritation.H336 May cause drowsiness or dizziness.

**EUH066** Repeated exposure may cause skin dryness or cracking.

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

R10 FLAMMABLE.

R11 HIGHLY FLAMMABLE.

R20/21 HARMFUL BY INHALATION AND IN CONTACT WITH SKIN.

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

R36/37/38 IRRITATING TO EYES, RESPIRATORY SYSTEM AND SKIN.

R38 IRRITATING TO SKIN.

RISK OF SERIOUS DAMAGE TO EYES. R41

HARMFUL: DANGER OF SERIOUS DAMAGE TO HEALTH BY PROLONGED R48/20

EXPOSURE THROUGH INHALATION.

R65 HARMFUL: MAY CAUSE LUNG DAMAGE IF SWALLOWED.

R66 REPEATED EXPOSURE MAY CAUSE SKIN DRYNESS OR CRACKING.

VAPOURS MAY CAUSE DROWSINESS AND DIZZINESS. **R67** 

### LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: EC Regulation 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- 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
- 4. Regulation (EC) 1272/2008 (CLP) of the European Parliament
- 5. Regulation (EC) 790/2009 (I Atp. CLP) of the European Parliament 6. Regulation (EC) 453/2010 of the European Parliament
- 7. Regulation (EC) 286/2011 (II Atp. CLP) of the European Parliament
- 8. Regulation (EC) 618/2012 (III Atp. CLP) of the European Parliament
- 9. The Merck Index. 10th Edition
- 10. Handling Chemical Safety
- 11. Niosh Registry of Toxic Effects of Chemical Substances
- 12. INRS Fiche Toxicologique (toxicological sheet)
- 13. Patty Industrial Hygiene and Toxicology
- 14. N.I. Sax Dangerous properties of Industrial Materials-7, 1989 Edition
- 15. ECHA website
- FOR PROFESSIONAL USE ONLY

This safety data sheet is prepared in accordance with the instructions provided on the relevant safety data sheets by our suppliers.

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.

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COMEC ITALIA SRL	Revision nr. 2
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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, com 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.	ply with the current health and safety
Changes to previous review: The following sections were modified: 01 / 02 / 04 / 08 / 09 / 11 / 12 / 16.	