COMEC	ITALIA SRL	Revision nr. 6 Dated 01.06.2015
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	Safety data sheet	
SECTION 1. Identification of the subs	stance/mixture and of the company/under	taking
<b>1.1. Product identifier</b> Product name	ADDITIVO PLP2	
1.2. Relevant identified uses of the substance or m Intended use Screen printing addit		
<b>1.3. Details of the supplier of the safety data sheet</b> Name Full address District and Country	COMEC ITALIA SRL PIAZZALE DEL LAVORO 149 21044 CAVARIA VA ITALIA	
	Tel. 0331 219516	
	Fax 0331 216161	
e-mail address of the competent person		
responsible for the Safety Data Sheet Product distribution by	info@comec-italia.it EDGARDO BAGGINI	
<b>1.4. Emergency telephone number</b> For urgent inquiries refer to	+39 0331 219516	
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 Irrit. 2	H319
Skin Irrit. 2	H315
STOT SE 3	H335
Aquatic Chronic 3	H412

2.1.2. 67/548/EEC and 1999/45/EC Directives and following amendments and adjustments. Danger Symbols:

Xn R phrases: 10-20/21-36/37/38-48/20-52/53-65

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

2.2. Label elements.

	COM	MEC ITALIA SF	RL	Revision nr. 6
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azard labelling pursuant azard pictograms:	to EC Regulation 1272	/2008 (CLP) and subse	equent amendments and supplemen	its.
Signal words:	Danger			
Hazard statements:				
H226	Flammable liquid an			
H304 H373	May cause damage	owed and enters airwat to organs through prol	ys. onged or repeated exposure.	
H319 H315	Causes serious eye Causes skin irritation	irritation.	_ , , ,	
H335	May cause respirato	ory irritation.	ete	
H412 Precautionary statements:		fe with long lasting effe	CIS.	
P210	Keen away from her	at / snarks / onon floma	s / hot surfaces. No smoking.	
P233	Keep container tight	ly closed.	5 / not sunaces. NO SHUKING.	
P264 P280	Wear protective glov	roughly after handling. ves / protective clothing	/ eye protection / face protection.	
P301+P310 P304+P340			ON CENTER or doctor / physician. d keep at rest in a position comforta	ble for breathing.
Contains:	XYLENE (MIXTURE	OF ISOMERS)		
2.3. Other hazards.				
nformation not available.				
SECTION 3. Com	position/inform	nation on ingred	ients.	
3.1. Substances.				
3.2. Mixtures.				
Contains:				
Identification.	ISOMERS)	Conc. %.	Classification 67/548/EEC.	Classification 1272/2008 (CLP).
		50 - 54	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,
<b>XYLENE (MIXTURE OF</b> CAS. 1330-20-7				
				Note C
CAS. 1330-20-7				
CAS. 1330-20-7 EC. 215-535-7				
CAS. 1330-20-7 EC. 215-535-7				

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Reg. no. 01-2119488216-32xxxx			
CHLOROBENZENE			
CAS. 108-90-7	4 - 4,5	R10, Xn R20, N R51/53	Flam. Liq. 3 H226, Acute Tox. 4 H332, Aquatic Chronic 2 H411
EC. 203-628-5			
INDEX. 602-033-00-1			
Reg. no. 01-2119432722-45-xxxx			
ISOBUTYL ACETATE			
CAS. 110-19-0 EC. 203-745-1	2 - 2,5	R66, F R11, Note C	Flam. Liq. 2 H225, EUH066, Note C
INDEX. 607-026-00-7			
Reg. no. 01-2119488971-22-xxxx			
ETHYLBENZENE			
CAS. 100-41-4 EC. 202-849-4	1,5 - 2	F R11, Xn R20	Flam. Liq. 2 H225, Acute Tox. 4 H332
INDEX. 601-023-00-4			
Reg. no. 01-2119489370-35-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 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention immediately. Wash contaminated clothing before using it again.

INHALATION: Remove to open air. If the subject stops breathing, administer artificial respiration. Get medical advice/attention immediately.

INGESTION: Get medical advice/attention immediately. Do not induce vomiting. Do not administer anything not explicitly 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.

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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 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).

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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

## XYLENE (MIXTURE OF ISOMERS)

Threshold Limit Value.	/							
Туре	Country	TWA/8h		STEL/15min				
		mg/m3	ppm	mg/m3	ppm			
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 concentratio	n - PNEC.							
Normal value for the terrestrial c Normal value in fresh water Normal value for water, intermitt Normal value for marine water Normal value for marine water se Normal value for marine water s Normal value of STP microorgan	ent release diment ediment nisms			2,31 0,327 0,327 0,327 12,46 12,46 6,58		mg/kg mg/l mg/l mg/kg mg/kg mg/kg	3	
Health - Derived no-effect	level - DNEL / I Effects on consumers.	DMEL			Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral.			VND	1,6 mg/kg/d				.,

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/m3 VND	77 mg/m3 VND	77 mg/m3 180 mg/kg
CHLOROBENZENE								
Threshold Limit Value.								
Туре	Country	TWA/8h		STEL/15min				
		mg/m3	ppm	mg/m3	ppm			
OEL	EU	23	5	70	15			
OEL	IRL	23	5	70	15			
TLV-ACGIH		46	10					
WEL	UK	4,7	1	14	3	SKIN		

ISOBUTYL ACETATE Threshold Limit Value.					
Type	Country	TWA/8h		STEL/15min	
		mg/m3	ppm	mg/m3	ppm

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OEL	IRL	700	150	875	187			
TLV-ACGIH		713	150					
WEL	UK	724	150	903	187			
ETHYLBENZENE								
Threshold Limit Value. Type	Country	TWA/8h		STEL/15min				
	,	mg/m3	ppm	mg/m3	ppm			
OEL	EU	442	100	884	200	SKIN		
OEL	IRL	442	100	884	200	SKIN		
TLV-ACGIH		87	20					
WEL	UK	441	100	552	125	SKIN		

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 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 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.

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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 Colour Odour Odour threshold. pH. Melting point / freezing point. Initial boiling point. Boiling range. Flash point. Evaporation Rate Flammability of solids and gases Lower inflammability limit. Upper inflammability limit. Upper explosive limit. Upper explosive limit. Upper explosive limit. Upper explosive limit. Vapour pressure. Vapour density Relative density. Solubility Partition coefficient: n-octanol/water Auto-ignition temperature. Decomposition temperature. Viscosity Explosive properties	liquid colourless typical of solvent Not available. Not available. > 115 °C. Not available. > 23 °C. Not available. 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.

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

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acids and perchlorates. May form explosive mixtures with the air.

ETHYLBENZENE: reacts violently with strong oxidising agents and attacks various types of plastics. Can form 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.

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

10.5. Incompatible materials.

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.

ETHYLBENZENE: methane, styrene, hydrogen, ethane.

# **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.

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.

Acute effects: vapour inhalation may irritate the lower and upper respiratory tract and cause cough and respiratory disorders. At higher concentrations it can also cause pulmonary edema. Ingestion may cause health problems, including stomach pain and sting, nausea and sickness.

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

ETHYLBENZENE: like the benzene homologues, may exert an effect on the CNS with depression, narcosis, often preceded by dizziness and accompanied by headache. It is irritating to the skin, conjunctivae and respiratory apparatus.

epoxidized oil LD50 (Oral). > 3200 mg/kg Ratto / Rat

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

ETHYLBENZENE

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LD50 (Oral). 3500 mg/kg Rat LD50 (Dermal). 15354 mg/kg Rabbit LC50 (Inhalation). 17,2 mg/l/4h Rat

CHLOROBENZENE LD50 (Oral). 1100 mg/Kg Ratto - Rat (IUCLID) LC50 (Inhalation). 13,9 mg/l/6h Ratto - Rat (IUCLID)

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

## **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.** 

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

ETHYLBENZENE

LC50 - for Fish. 4,2 mg/l/96h Oncorhynchus mykiss OECD TG 203 EC50 - for Crustacea. 2,9 mg/l/48h Daphnia magna (database Ecotox) EC50 - for Algae / Aquatic Plants. 4,6 mg/l/72h Pseudokirchneriella subcapitata (IUCLID)

CHLOROBENZENE LC50 - for Fish. 10,4 mg/l/96h Salmo OECD TG 203 EC50 - for Crustacea. 20 mg/l/48h Daphnia magna OECD TG 202

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.

CHLOROBENZENE: not easily biodegradable.

XYLENE (MIXTURE OF ISOMERS) Rapidly biodegradable.

ETHYLBENZENE Rapidly biodegradable.

CHLOROBENZENE NOT rapidly biodegradable.

ISOBUTYL ACETATE Rapidly biodegradable. 12.3. Bioaccumulative potential.

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CHLOROBENZENE: no appreciable bioaccumulation potential (log Ko/w 1-3).

ETHYLBENZENE

Partition coefficient: n-octanol/water. 3,15 mg/l

CHLOROBENZENE Partition coefficient: n-octanol/water. 2,84 mg/l

12.4. Mobility in soil.

CHLOROBENZENE: moderately mobile in soil. 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 trans		3	UN:	1993
Packing (	Group:	Ш		
Label:		3		
Nr. Kemle	er:	30		
Limited G	uantity.	5 L		
Tunnel re	striction code.	(D/E)		
Proper SI	nipping Name:	FLAMMABL	E LIQUID, N.O.S. (ISOBUTYL A	ACETATE; ETHYLBENZENE)
Special P	rovision:	640E		

## Carriage by sea (shipping):

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	IMO Class:	3	UN:	1993
~	Packing Group:	Ш		
	Label:	3		
	EMS:	F-E ,	<u>S-E</u>	
	Marine Pollutant.	NO		
	Proper Shipping Name:	FLAMMABLE	LIQUID, N.O.S. (ISOBUTYL ACETA	ATE; ETHYLBENZENE)
nspo	ort by air: IATA:	3	UN:	1993
		3	UN.	1000
	Packing Group:	111		
	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 ACETA	ATE; ETHYLBENZENE)
СТ	ION 15. Regulatory inform	ation.		
. Sa	fety, health and environmental regu	ations/legislation specifi	ic for the substance or mixture.	
eso d	category. 6			
	ns relating to the product or contained s			

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:

None.

Substances subject to the Stockholm Convention:

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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 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 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.
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.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H335	May cause respiratory irritation.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
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	HARMFUL BY INHALATION.
R20/21	HARMFUL BY INHALATION AND IN CONTACT WITH SKIN.
R36/37/38	IRRITATING TO EYES, RESPIRATORY SYSTEM AND SKIN.
R48/20	HARMFUL: DANGER OF SERIOUS DAMAGE TO HEALTH BY PROLONGED EXPOSURE THROUGH INHALATION.

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R52/53	TOXIC TO AQUATIC ORGANISMS, MAY CAUSE LONG-TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT. HARMFUL TO AQUATIC ORGANISMS, MAY CAUSE LONG-TERM ADVERSE	
	EFFECTS IN THE AQUATIC ENVIRONMENT. HARMFUL: MAY CAUSE LUNG DAMAGE IF SWALLOWED.	
	REPEATED EXPOSURE MAY CAUSE SKIN DRYNESS OR CRACKING.	
LEGEND: - ADR: European Agreement of - CAS NUMBER: Chemical Ab - CE50: Effective concentration - CE NUMBER: Identifier in ES - CLP: EC Regulation 1272/20 - DNEL: Derived No Effect Lev - EmS: Emergency Schedule - GHS: Globally Harmonized S - IATA DGR: International Air - IC50: Immobilization Concen - IMDG: International Maritime O - INDEX NUMBER: Identifier in - LC50: Lethal Concentration 5 - LD50: Lethal dose 50% - OEL: Occupational Exposure - PBT: Persistent bioaccumula - PEC: Predicted environmenta - PEL: Predicted environmenta - PEL: Predicted no effect co - REACH: EC Regulation 1907 - RID: Regulation concerning t - TLV: Threshold Limit Value - TLV CEILING: Concentration - TWA STEL: Short-term expo - TWA: Time-weighted averagy - VOC: Volatile organic Compo	concerning the carriage of Dangerous goods by Road Destract Service Number n (required to induce a 50% effect) SIS (European archive of existing substances) D08 vel System of classification and labeling of chemicals Transport Association Dangerous Goods Regulation ntration 50% a Code for dangerous goods Drganization n Annex VI of CLP 50% a Level ative and toxic as REACH Regulation al Concentration Pl oncentration 7/2006 the international transport of dangerous goods by train n that should not be exceeded during any time of occupational exposure. Desure limit le exposure limit ounds ery Bioaccumulative as for REACH Regulation	
<ol> <li>Regulation (EC) 1907/2006</li> <li>Regulation (EC) 1272/2008</li> <li>Regulation (EC) 790/2009 (</li> <li>Regulation (EC) 790/2009 (</li> <li>Regulation (EC) 453/2010 of</li> <li>Regulation (EC) 618/2012 (</li> <li>The Merck Index 10th Edit</li> <li>Handling Chemical Safety</li> <li>Niosh - Registry of Toxic E</li> <li>INRS - Fiche Toxicologique</li> <li>Patty - Industrial Hygiene at</li> <li>N.I. Sax - Dangerous properties.</li> <li>ECHA website</li> <li>FOR PROFESSIONAL USE OF</li> <li>The information contained in thoroughness of provided information this document must not be regulation to the regulations. The proceeding of the second second</li></ol>	ollowing amendments and adjustments (REACH) of the European Parliament (CLP) of the European Parliament (I Atp. CLP) of the European Parliament (II Atp. CLP) of the European Parliament (II Atp. CLP) of the European Parliament (III Atp. CLP) of the European Parliament ition Effects of Chemical Substances le (toxicological sheet) and Toxicology perties of Industrial Materials-7, 1989 Edition	ersion. Users must verify the suitability and

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Changes to previous review: The following sections were modified: 01 / 02 / 03 / 04 / 06 / 07 / 08 / 09 / 11 / 12 / 13 / 14 / 15 / 16.