COMEC	Revision nr. 9						
		Dated 01.06.2015					
SERIE PLTTEXA: 75-76-77-78	Printed on 01.06.2015						
GL	ITTER,	Page n. 1/18					
	Safety data sheet						
SECTION 1. Identification of the subs	stance/mixture and of the company/unde	ertaking					
1.1. Product identifier Product name	SERIE PLTTEXA: 75-76-77-78 RE, 79-050, 79-010, 75-76	6-77-78 RE GLITTER,					
1.2. Relevant identified uses of the substance or m Intended use Pad printing ink.	nixture and uses advised against						
1.3. Details of the supplier of the safety data sheet							
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	<u>info@comec-italia.it</u> EDGARDO BAGGINI						
1.4. Emergency telephone number 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
Eye Irrit. 2	H319
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: 10-20/21-36-52/53-65

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

2.2. Label elements.

Revision nr. 9 **COMEC ITALIA SRL** Dated 01.06.2015 Printed on 01.06.2015 SERIE PLTTEXA: 75-76-77-78 RE, 79-050, 79-010, 75-76-77-78 RE GLITTER, Page n. 2/18 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. H319 Causes serious eye irritation. H412 Harmful to aquatic life with long lasting effects. Precautionary statements: Keep away from heat / sparks / open flames / hot surfaces. No smoking. P210 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. P303+P361+P353 IF ON SKIN (or hair): Remove / Take off immediately all contaminated clothing. Rinse skin with water / shower. Contains: Aromatic hydrocarbons, C9 2.3. Other hazards. Information not available. **SECTION 3. Composition/information on ingredients.** 3.1. Substances. Information not relevant. 3.2. Mixtures. Contains: Classification 67/548/EEC. Classification 1272/2008 (CLP). Identification. Conc. %. 2-METHOXY-1-METHYLETHYL ACETATE CAS. 108-65-6 R10 Flam. Liq. 3 H226 13,5 - 15 EC. 203-603-9 INDEX. 607-195-00-7 Reg. no. 01-2119475791-29-xxxx ALUMINIUM POWDER (STABILIZED) CAS. 7429-90-5 13,5 - 15 F R11, Note T Flam. Sol. 1 H228, Note T EC. 231-072-3

Revision nr. 9 Dated 01.06.2015

SERIE PLTTEXA: 75-76-77-78 RE, 79-050, 79-010, 75-76-77-78 RE GLITTER, Printed on 01.06.2015

Page n. 3/18

INDEX. 013-002-00-1			
Reg. no. 01-2119529243-45			
4-HYDROXY-4-METHYLPENTAN-2-ONE			
CAS. 123-42-2 EC. 204-626-7	12 - 13,5	Xi R36	Flam. Liq. 3 H226, Eye Irrit. 2 H319
INDEX. 603-016-00-1			
Reg. no. 01-2119473975-21xxxx			
Aromatic hydrocarbons, C9			
CAS. 64742-95-6	10,5 - 12	R10, R66, R67, Xn R65, Xi R37, N R51/53, Note P	Flam. Liq. 3 H226, Asp. Tox. 1 H304, STOT SE 3 H335, STOT SE 3 H336, Aquatic Chronic 2 H411, EUH066, Note P
EC. 918-668-5			
INDEX. 649-356-00-4			
Reg. no. 01-2119486773-35-xxxx			
CYCLOHEXANONE			
CAS. 108-94-1 EC. 203-631-1	7 - 8	R10, Xn R20	Flam. Liq. 3 H226, Acute Tox. 4 H332
INDEX. 606-010-00-7			
Reg. no. 01-2119453616-35-xxxx			
DIPROPYLENE GLYCOL MONOMETHYL ETHER			
CAS. 34590-94-8	6 - 7		Substance with a community workplace exposure
EC. 252-104-2			limit.
INDEX			
Reg. no. 01-2119450011-60xxxx			
2-ETHOXY-1-METHYLETHYL ACETATE			
CAS. 54839-24-6 EC. 259-370-9	3,5 - 4	R10, R67	Flam. Liq. 3 H226, STOT SE 3 H336
INDEX. 603-177-00-8			
Reg. no. 01-2119475116-39xxxx			
HYDROCARBONS, C10-C13, n-alkanes, isoalkanes, CYCLIC, <2% AROMATIC CAS EC. 918-481-9	3 - 3,5	R66, Xn R65	Asp. Tox. 1 H304, EUH066
INDEX			
Reg. no. 01-2119457273-39-xxxx			
XYLENE (MIXTURE OF ISOMERS)			
, ,	1,5 - 2	R10 Xn R20/21 Xn R48/20 Xn R65 Xi	Flam. Liq. 3 H226, Acute Tox. 4 H312, Acute Tox.
CAS. 1330-20-7	1,5 - 2	R36/37/38, Note C	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			
ETHYLBENZENE			
CAS. 100-41-4 EC. 202-849-4	0,2 - 0,3	F R11, Xn R20	Flam. Liq. 2 H225, Acute Tox. 4 H332
INDEX. 601-023-00-4			
Reg. no. 01-2119489370-35-xxxx			
Nete: I know limit is not included into the range			

Note: Upper limit is not included into the range.

Revision nr. 9 Dated 01.06.2015

SERIE PLTTEXA: 75-76-77-78 RE, 79-050, 79-010, 75-76-77-78 RE GLITTER,

Printed on 01.06.2015

Page n. 4/18

The full wording of the Risk (R) and hazard (H) phrases is given in section 16 of the sheet. $T_{i} = Vor(T_{i}) T_{i} = Toxic(T_{i}) T_{i} = Vor(T_{i}) T_{i} = Vor(T_{i}) T_{i}$

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.

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

Revision nr. 9 Dated 01.06.2015

SERIE PLTTEXA: 75-76-77-78 RE, 79-050, 79-010, 75-76-77-78 RE GLITTER,

Printed on 01.06.2015

Page n. 5/18

contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

6.2. Environmental precautions.

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

6.3. Methods and material for containment and cleaning up.

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Check incompatibility for container material in section 7. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

6.4. Reference to other sections.

Any information on personal protection and disposal is given in sections 8 and 13.

SECTION 7. Handling and storage.

7.1. Precautions for safe handling.

Keep away from heat, sparks and naked flames; do not smoke or use matches or lighters. Vapours may catch fire and an explosion may occur; vapour accumulation is therefore to be avoided by leaving windows and doors open and ensuring good cross ventilation. Without adequate ventilation, vapours may accumulate at ground level and, if ignited, catch fire even at a distance, with the danger of backfire. Avoid bunching of electrostatic charges. When performing transfer operations involving large containers, connect to an earthing system and wear antistatic footwear. Vigorous stirring and flow through the tubes and equipment may cause the formation and accumulation of electrostatic charges. In order to avoid the risk of fires and explosions, never use compressed air when handling. Open containers with caution as they may be pressurised. Do not eat, drink or smoke during use. Avoid leakage of the product into the environment.

7.2. Conditions for safe storage, including any incompatibilities.

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Store in a well ventilated place, keep far away from sources of heat, naked flames and sparks and other sources of ignition. Keep containers away from any incompatible materials, see section 10 for details.

7.3. Specific end use(s).

Information not available.

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

2-METHOXY-1-METHYLETHYL ACETATE

Revision nr. 9

Dated 01.06.2015 Printed on 01.06.2015

SERIE PLTTEXA: 75-76-77-78 RE, 79-050, 79-010, 75-76-77-78 RE GLITTER,

Page n. 6/18

Threshold Limit Value.	Country	TWA/8h		STEL/15min				
		mg/m3	ppm	mg/m3	ppm			
OEL	EU	275	50	550	100	SKIN		
OEL	IRL	275	50	550	100	SKIN		
WEL	UK	274	50	548	100			
Predicted no-effect concentration		217	00	0+0	100			
Normal value for the terrestrial co				0,29		mg/kg	n	
Normal value in fresh water Normal value for water, intermitte Normal value in marine water Normal value for fresh water sed Normal value for marine water se Normal value of STP microorgan			0,635 6,35 0,0635 3,29 0,329 100		mg/i mg/i mg/i mg/kg mg/i mg/i	-		
Health - Derived no-effect I	Effects on	MEL			Effects on			
Route of exposure	consumers. Acute local	Acute systemic	Chronic local	Chronic systemic	workers Acute local	Acute systemic	Chronic local	Chronic systemic
Oral.			VND	1,67 mg/kg				
Inhalation.			VND	33 mg/m3			VND	272 mg/m3
Skin.			VND	54,8 mg/kg			VND	153,5 mg/kg
ALUMINIUM POWDER (STA Threshold Limit Value.	ABILIZED)							
Туре	Country	TWA/8h		STEL/15min				
		mg/m3	ppm	mg/m3	ppm			
OEL	IRL	1						
TLV-ACGIH		1	0,9					
WEL	UK	4						
4-HYDROXY-4-METHYLPEI	NTAN-2-ONE							
Threshold Limit Value.		714/4/01						
Туре	Country	TWA/8h		STEL/15min				
		mg/m3	ppm	mg/m3	ppm			
OEL	IRL	240	50	360	75			
TLV-ACGIH		238	50					
WEL	UK	241	50	362	75			
Aromatic hydrocarbons, C Threshold Limit Value.	9							
Type	Country	TWA/8h		STEL/15min				
		mg/m3	ppm	mg/m3	ppm			
TLV-ACGIH		100	20	250	50			
Health - Derived no-effect level - DNEL / DMEL Effects on Effects on								
Route of exposure	consumers. Acute local	Acute systemic	Chronic local	Chronic systemic	workers Acute local	Acute systemic	Chronic local	Chronic systemic
Oral.			VND	11 mg/kg		0,0001110		
Inhalation.			VND	32 mg/m3			VND	150 mg/m3
Skin.			VND	11 mg/kg			VND	25 mg/kg
CYCLOHEXANONE								

Revision nr. 9

Dated 01.06.2015 Printed on 01.06.2015

SERIE PLTTEXA: 75-76-77-78 RE, 79-050, 79-010, 75-76-77-78 RE GLITTER,

Page n. 7/18

Threshold Limit Value.								
Туре	Country	TWA/8h		STEL/15min				
		mg/m3	ppm	mg/m3	ppm			
OEL	EU	40,8	10	81,6	20	SKIN		
OEL	IRL	40,8	10	81,6	20	SKIN		
TLV-ACGIH		80	20	201	50			
WEL	UK	41	10	82	20	SKIN		
Predicted no-effect concentration	- PNEC.							
Normal value for the terrestrial compartment 0 Normal value in fresh water 0 Normal value in marine water 0 Normal value for fresh water sediment 0				0,0143 0,0329 0,0329 0,0951		mg/Kg mg/l mg/l mg/l)	
Health - Derived no-effect le	Effects on consumers.				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic	Acute local	Acute	Chronic local	Chronic systemic
Inhalation.				systemic		systemic	120 mg/m3	20 mg/m3
Skin.							VND	20 mg/kg/d
DIPROPYLENE GLYCOL M	ONOMETHYL I	THER						
Threshold Limit Value. Type	Country	TWA/8h		STEL/15min				
1,100	oountry	mg/m3	ppm	mg/m3	ppm			
OEL	EU	308	50	ing/ino	ppin	SKIN		
OEL	IRL	308	50			SKIN		
TLV-ACGIH		606	100	909	150	SKIN		
WEL	UK	308	50	505	100	SKIN		
	0.1					0.1.1.1		
2-ETHOXY-1-METHYLETHY Predicted no-effect concentration								
Normal value for the food chain (secondary poisoning)117mg/kgNormal value for the terrestrial compartment1,34mg/kgNormal value in fresh water1,3mg/lNormal value for water, intermittent release1,3mg/lNormal value in marine water0,13mg/lNormal value for fresh water sediment6,4mg/kgNormal value for STP microorganisms62,5mg/kg								
Health - Derived no-effect le	evel - DNEL / D Effects on	MEL			Effects on			
Route of exposure	consumers. Acute local	Acute systemic	Chronic local	Chronic systemic	workers Acute local	Acute systemic	Chronic local	Chronic systemic
Oral.			VND	13,1 mg/kg				
Inhalation. Skin.	VND	365 mg/m3	VND VND	181 mg/m3 62 mg/kg	VND	608 mg/m3	VND VND	302 mg/m3 103 mg/kg
HYDROCARBONS, C10-C13	3, n-alkanes, is	oalkanes, CYCL	.IC, <2% AROM					
Threshold Limit Value. Type	Country	TWA/8h		STEL/15min				
.,,,,,	county	mg/m3	ppm	mg/m3	ppm			
TLV-ACGIH		1200	184		65			
		1200	TUT					
VVI ENE (MIVTURE OF 190								
XYLENE (MIXTURE OF ISO Threshold Limit Value.	wers)							

Revision nr. 9

Dated 01.06.2015 Printed on 01.06.2015

SERIE PLTTEXA: 75-76-77-78 RE, 79-050, 79-010, 75-76-77-78 RE GLITTER,

Page n. 8/18

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 concentra	ation - PNEC.							
Normal value for the terrestri Normal value in fresh water Normal value for water, intern Normal value in marine wate Normal value for fresh water Normal value for marine wate Normal value of STP microoo	mittent release r sediment er sediment ganisms			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	9	
Health - Derived no-effe	Effects on	DMEL			Effects on			
Route of exposure	consumers. Acute local	Acute systemic	Chronic local	Chronic systemic	workers 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

ETHYLBENZENE Threshold Limit Value. TWA/8h STEL/15min Туре Country mg/m3 mg/m3 ppm ppm OEL EU 442 100 884 200 SKIN OEL IRL 442 100 884 200 SKIN TLV-ACGIH 87 20 WFI SKIN UK 441 100 552 125

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.

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 I professional long-sleeved overalls and safety footwear (see Directive 89/686/EEC and standard EN ISO 20344). Wash body with soap

Revision nr. 9 Dated 01.06.2015

SERIE PLTTEXA: 75-76-77-78 RE, 79-050, 79-010, 75-76-77-78 RE GLITTER, Printed on 01.06.2015

Page n. 9/18

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.

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.

9.2. Other information.

Information not available.

SECTION 10. Stability and reactivity.

Revision nr. 9 Dated 01.06.2015

SERIE PLTTEXA: 75-76-77-78 RE, 79-050, 79-010, 75-76-77-78 RE GLITTER,

Printed on 01.06.2015

Page n. 10/18

10.1. Reactivity.

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

DIPROPYLENE GLYCOL MONOMETHYL ETHER: may react with oxidising agents. When heated to decomposition it releases harsh and irritating fumes and vapours.

1-METHOXY-2-PROPANOL ACETATE: stable but with the air it may slowly develop peroxides that explode with an increase in temperature. 4-HYDROXY-4-METHYLPENTAN-2-ONE: decomposes at tempratures above 90°C.

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

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.

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

4-HYDROXY-4-METHYLPENTAN-2-ONE: risk of explosion on contact with the air and sources of heat. Can react dangerously with: alkaline metals,

amines, oxidising agents, acids.

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.

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. 4-HYDROXY-4-METHYLPENTAN-2-ONE: avoid exposure to light, sources of heat and naked flames. CYCLOHEXANONE: 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.

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.

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.

Revision nr. 9 Dated 01.06.2015

SERIE PLTTEXA: 75-76-77-78 RE, 79-050, 79-010, 75-76-77-78 RE GLITTER,

Printed on 01.06.2015

Page n. 11/18

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.

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.

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.

4-HYDROXY-4-METHYLPENTAN-2-ONE: its acute toxicity is manifested by eye irritation, nose and throat in man at 100 ppm (476 mg/kg) and by pulmonary disorders at 400 ppm. No chronic effects have been reported in man.

HYDROCARBONS, C10-C13, n-alkanes, isoalkanes, CYCLIC, <2% AROMATIC LD50 (Oral). > 5000 mg/kg bw Rat LD50 (Dermal). > 2000 mg/kg bw Rat LC50 (Inhalation). > 50000 mg/m3 8h Rat

ALUMINIUM POWDER (STABILIZED) LC50 (Inhalation). > 5 mg/l Ratto / Rat (4h)

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

DIPROPYLENE GLYCOL MONOMETHYL ETHER LD50 (Oral). > 5000 mg/Kg Ratto / Rat LD50 (Dermal). 13000 mg/Kg Coniglio / Rabbit

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

2-ETHOXY-1-METHYLETHYL ACETATE LD50 (Oral). > 5000 mg/Kg Ratto / Rat LD50 (Dermal). 13,42 ml/Kg Coniglio / Rabbit LC50 (Inhalation). 6,99 mg/l/4h Rat

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

4-HYDROXY-4-METHYLPENTAN-2-ONE LD50 (Oral). 4000 mg/kg Rat LC50 (Inhalation). > 7600 mg/l Ratto / Rat

CYCLOHEXANONE LD50 (Oral). > 1535 mg/Kg Ratto / Rat LD50 (Dermal). 948 mg/Kg Coniglio / Rabbit LC50 (Inhalation). > 8000 mg/l Ratto / Rat

SERIE PLTTEXA: 75-76-77-78 RE, 79-050, 79-010, 75-76-77-78 RE GLITTER, Revision nr. 9

Dated 01.06.2015

Printed on 01.06.2015

Page n. 12/18

Aromatic hydrocarbons, C9 LD50 (Oral). > 2000 mg/Kg LD50 (Dermal). > 2000 mg/Kg LC50 (Inhalation). > 5 mg/l **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. HYDROCARBONS, C10-C13, n-alkanes, isoalkanes, CYCLIC, <2% AROMATIC LC50 - for Fish. > 1000 mg/l/96h Oncorthyncus mykiss OECD 203 EC50 - for Crustacea. > 1000 mg/l/48h Daphnia magna 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 DIPROPYLENE GLYCOL MONOMETHYL ETHER LC50 - for Fish. > 10000 mg/l/96h Pimephales promelas EC50 - for Crustacea. > 969 mg/l/48h Algae (96h) 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 2-ETHOXY-1-METHYLETHYL ACETATE LC50 - for Fish. 140 mg/l/48h Oncorhynchus mykiss (test 48h) EC50 - for Crustacea. 110 mg/l/48h Daphnia magna EC50 - for Algae / Aquatic Plants. > 100 mg/l/72h Scenedesmus subspicatus 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) 4-HYDROXY-4-METHYLPENTAN-2-ONE LC50 - for Fish. > 100 mg/l/96h Fish EC50 - for Crustacea.

SERIE PLTTEXA: 75-76-77-78 RE, 79-050, 79-010, 75-76-77-78 RE GLITTER,

Revision nr. 9

Dated 01.06.2015 Printed on 01.06.2015

Page n. 13/18

> 1000 mg/l/48h Daphnia magna

CYCLOHEXANONE EC50 - for Crustacea. 527 mg/l/48h Fish, Pimephales promelas (96h)

Aromatic hydrocarbons, C9 LC50 - for Fish. > 1 mg/l/96h ALGHE: TOSSICO: 1< LC/EC/IC50 <= 10 mg/l EC50 - for Crustacea. > 10 mg/l/48h INVERTEBRATI ACQUATICI: TOSSICO: 1 < LC/EC/IC50 <= 10 mg/l EC50 - for Algae / Aquatic Plants. > 100 mg/l/72h PESCE: TOSSICO: 1 < LC/EC/IC50 <= 10 mg/l

12.2. Persistence and degradability.

HYDROCARBONS, C10-C13, n-alkanes, isoalkanes, CYCLIC, <2% AROMATIC Rapidly biodegradable.

XYLENE (MIXTURE OF ISOMERS) Rapidly biodegradable.

DIPROPYLENE GLYCOL MONOMETHYL ETHER Rapidly biodegradable.

2-METHOXY-1-METHYLETHYL ACETATE Solubility in water. 198000 mg/l Rapidly biodegradable.

2-ETHOXY-1-METHYLETHYL ACETATE Solubility in water. 6,96 g/l Rapidly biodegradable.

ETHYLBENZENE Rapidly biodegradable.

4-HYDROXY-4-METHYLPENTAN-2-ONE Rapidly biodegradable.

CYCLOHEXANONE Rapidly biodegradable.

Aromatic hydrocarbons, C9 Rapidly biodegradable. 12.3. Bioaccumulative potential.

DIPROPYLENE GLYCOL MONOMETHYL ETHER Partition coefficient: n-octanol/water. -35 mg/l

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

SERIE PLTTEXA: 75-76-77-78 RE, 79-050, 79-010, 75-76-77-78 RE GLITTER, Revision nr. 9

Dated 01.06.2015

Printed on 01.06.2015

Page n. 14/18

ETHYLBENZENE

Partition coefficient: n-octanol/water. 3,15 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	I rail transport:			
	۲	ADR/RID Class:	3	UN:	1210
	•	Packing Group:	Ш		
		Label:	3		
		Nr. Kemler:	30		
		Limited Quantity.	5 L		
		Tunnel restriction code.	(D/E)		
		Proper Shipping Name:	PRINTING INK or PRI	NTING INK RELATED MATERIAL	
		Special Provision:	640E		
	Carriage	by sea (shipping):			
		IMO Class:	3	UN:	1210
		Packing Group:	III		
		Label:	3		
		EMS:	F-E, S-D		
- 1					

Revision nr. 9 Dated 01.06.2015

SERIE PLTTEXA: 75-76-77-78 RE, 79-050, 79-010, 75-76-77-78 RE GLITTER,

Printed on 01.06.2015

Page n. 15/18

	Marine Pollutant.		NO		
	Proper Shipping Name:		PRINTING INK or PRIN	NTING INK RELATED MATERIAL	
Transport	by air: IATA:		3	UN:	1210
3	Packing Group:		Ш		
	Label:		3		
	Cargo:				
	Packaging instructions:		366	Maximum quantity:	220 L
	Pass.:				
	Packaging instructions:		355	Maximum quantity:	60 L
	Special Instructions:		A3, A72		
	Proper Shipping Name:		PRINTING INK or PRIN	NTING INK RELATED MATERIAL	
SECTIO	ON 15. Regulatory i	nformation.			
15.1 Safa	ty, health and environmer	tal regulations/leg	islation specific for the	substance or mixture	
15.1. Sale	ty, nealth and environmen	ital regulations/leg	islation specific for the	substance of mixture.	
<u>Seveso ca</u>	tegory.	6			
Destrictions	relating to the product or on	entained automasa	nurouant to Annov XV/II	to FC Degulation 1007/2000	
Restrictions	relating to the product of co	mained substances	pursuant to Annex XVII	to EC Regulation 1907/2006.	
Product. Point.		3 - 40			
Substances	in Candidate List (Art. 59 R	EACH).			
None.					
Substances	subject to authorisarion (An	nex XIV REACH).			
None.					
Substances	subject to exportation repor	ting pursuant to (EC) Reg. 649/2012:		
None.					
Substances	subject to the Rotterdam Co	onvention:			
Substances		onvention.			
None.					
Substances	subject to the Stockholm Co	onvention:			
None.					
Healthcare of	controls.				
Workers exp	oosed to this chemical agen	t must not undergo	nealth checks, provided	that available risk-assessment data pro	ve that the risks related to the

SERIE PLTTEXA: 75-76-77-78 RE, 79-050, 79-010, 75-76-77-78 RE GLITTER,

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
Flam. Sol. 1	Flammable solid, category 1
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.
H228	Flammable solid.
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.
H336	May cause drowsiness or dizziness.
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	IRRITATING TO EYES.
R36/37/38	IRRITATING TO EYES, RESPIRATORY SYSTEM AND SKIN.
R37	IRRITATING TO RESPIRATORY SYSTEM.

Revision nr. 9 Dated 01.06.2015

Printed on 01.06.2015

Page n. 16/18

Revision nr. 9

Dated 01.06.2015

SERIE PLTTEXA: 75-76-77-78 RE, 79-050, 79-010, 75-76-77-78 RE GLITTER,

Printed on 01.06.2015

Page n. 17/18

R48/20	HARMFUL: DANGER OF SERIOUS DAMAGE TO HEALTH BY PROLONGED EXPOSURE THROUGH INHALATION.
R51/53	TOXIC TO AQUATIC ORGANISMS, MAY CAUSE LONG-TERM ADVERSE
R52/53	EFFECTS IN THE AQUATIC ENVIRONMENT. HARMFUL TO AQUATIC ORGANISMS, MAY CAUSE LONG-TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT.
R65	HARMFUL: MAY CAUSE LUNG DAMAGE IF SWALLOWED.
R66	REPEATED EXPOSURE MAY CAUSE SKIN DRYNESS OR CRACKING.
R67	VAPOURS MAY CAUSE DROWSINESS AND DIZZINESS.
 CAS NUMBER: Chemical J. CE50: Effective concentrat CE50: Effective concentrat CE NUMBER: Identifier in CLP: EC Regulation 1272/ DNEL: Derived No Effect L EmS: Emergency Schedulid GHS: Globally Harmonized IATA DGR: International A IC50: Immobilization Concerning IMDG: International Maritime INDEX NUMBER: Identifie LC50: Lethal Concentration LD50: Lethal Concentration PBT: Persistent bioaccume PEC: Predicted environme PEL: Predicted no effect REACH: EC Regulation 19 RID: Regulation concerning TLV: Threshold Limit Value TLV CEILING: Concentration TWA STEL: Short-term exg TWA: Time-weighted avera VOC: Volatile organic Commit 	ion (required to induce a 50% effect) ESIS (European archive of existing substances) 2008 evel e d System of classification and labeling of chemicals ir Transport Association Dangerous Goods Regulation entration 50% ne Code for dangerous goods a Organization rin Annex VI of CLP n 50% urre Level Jlative and toxic as REACH Regulation ntal Concentration evel concentration 107/2006 g the international transport of dangerous goods by train a on that should not be exceeded during any time of occupational exposure. posure limit age exposure limit ipounds very Bioaccurmulative as for REACH Regulation
 Regulation (EC) 1907/200 Regulation (EC) 1272/200 Regulation (EC) 790/2009 Regulation (EC) 453/2010 Regulation (EC) 286/2011 Regulation (EC) 286/2011 Regulation (EC) 618/2012 The Merck Index 10th E Handling Chemical Safe Niosh - Registry of Toxic INRS - Fiche Toxicologic Patty - Industrial Hygien N.I. Sax - Dangerous pro ECHA website FOR PROFESSIONAL USE This safety data sheet is pre Note for users: The information contained i thoroughness of provided in 	I following amendments d following amendments and adjustments D6 (REACH) of the European Parliament D8 (CLP) of the European Parliament O (I Atp. CLP) of the European Parliament I (II Atp. CLP) of the European Parliament 2 (III Atp. CLP) of the European Parliament 2 (III Atp. CLP) of the European Parliament Edition ty c Effects of Chemical Substances que (toxicological sheet) e and Toxicology operties of Industrial Materials-7, 1989 Edition

Revision nr. 9 Dated 01.06.2015

SERIE PLTTEXA: 75-76-77-78 RE, 79-050, 79-010, 75-76-77-78 RE GLITTER,

Printed on 01.06.2015

Page n. 18/18

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: 01 / 02 / 03 / 07 / 08 / 09 / 10 / 11 / 12 / 16.