

Safety Data Sheet

1. Identification of the substance / preparation and the Company

1.1 Identification of the substance or preparation

Product name SERIE PLT35

1.2 Use of the substance / preparation

Intended use Screen Printing ink

1.3 Company identification

Name 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

Product distribution by Edgardo Baggii

1.4 Emergency telephone

2. Hazards Identification

2.1 Substance/Preparation Classification

This product is dangerous under 67/548/EEC and 1999/45/EC directives and subsequent amendments. Therefore, this product requires a safety data sheet according to the Regulation (EC) 1907/2006 and subsequent amendments. Further information on health and/or environmental hazards can be found in sections 11 and 12 of this sheet.

R phrases:

10-67

2.2 Danger Identification

Because of its chemical-physical features, this product is graded as flammable (flash-point 21 °C or higher and 55 °C or lower).

VAPOURS MAY CAUSE DROWSINESS AND DIZZINESS.

This product contains sensitizing substance/s and may cause allergic reactions.

3. Composition / Information on ingredients

Contains:

Name	Concentration % (C)	Classification
1-METHOXY-2-PROPANOL ACETATE	0,6 <= C < 0,7	R10
CAS No 108-65-6		Xi R36
CE No 203-603-9		
Index No 607-195-00-7		
1-ETHOXY-2-PROPANOL ACETATE	25,5 <= C < 27	R10
CAS No 54839-24-6		R67
CE No 259-370-9		
Index No 603-177-00-8		
4-HYDROXY-4-METHYLPENTAN-2-	7 <= C < 8	Xi R36

ONE

CAS No 123-42-2
CE No 204-626-7
Index No 603-016-00-1

1-METHOXY-2-PROPANOL 7 <= C < 8 R10
CAS No 107-98-2
CE No 203-539-1
Index No 603-064-00-3

CYCLOHEXANONE 1 <= C < 1,5 R10
CAS No 108-94-1 Xn R20
CE No 203-631-1
Index No 606-010-00-7

SOLVENT NAPHTA (PETROLEUM), 5 <= C < 6 Xn R65
LIGHT AROM Note H P 4
CAS No 64742-95-6
CE No 265-199-0
Index No 649-356-00-4

quaternary ammonium eto sulphate 0,7 <= C < 0,8 C R34
CAS No 68308-64-5 Xn R22

The complete text of -R- phrases is specified in section 16.

4. First aid measures

EYES: Irrigate copiously with clean, fresh water for at least 15 minutes. Seek medical advice.

SKIN: Wash immediately with plenty of water. Remove contaminated clothing. If irritation persists, seek medical attention. Wash contaminated clothing before using them again.

INHALATION: Remove to open air. If breathing is irregular, seek medical advice.

INGESTION: Obtain immediate medical attention. Induce vomiting only if indicated by the doctor. Never give anything by mouth to an unconscious person.

5. Fire-fighting measures

GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Excess pressure may form in containers exposed to fire at a risk of explosion. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water and the remains of the fire according to applicable regulations.

SUITABLE EXTINGUISHING MEDIA

The extinction equipment should contain carbon dioxide, foam or chemical powders. For product leaks and spills that have not caught fire, nebulised water can be used to dispel flammable fumes and protect the individuals taking part in stemming the leak.

EXTINGUISHING MEDIA WHICH SHALL NOT BE USED FOR SAFETY REASONS

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.

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Do not breathe combustion products (carbon oxide, toxic pyrolysis products, etc).

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Hardhat with visor, fireproof clothing (fireproof jacket and trousers with ties around arms, legs and waist) work gloves (fireproof, cut proof and dielectric), self-respirator (self-protector).

6. Accidental release measures

PERSONAL PRECAUTIONS

Eliminate sources of ignition (cigarettes, flames, sparks, etc.) from the area in which the leak occurred. If there are no contraindications, spray solid products with water to prevent the formation of dust. Use breathing equipment if fumes or powders are released into the air. Block the leakage if there is no hazard. Do not handle damaged containers or leaked product before donning appropriate protective gear. Send away individuals who are not suitably equipped. For information on risks for the environmental and health, respiratory tract protection, ventilation and personal protection equipment, refer to the other sections of this sheet.

ENVIRONMENTAL PRECAUTIONS

The product must not penetrate the sewers, surface water, ground water and neighbouring areas.

METHODS FOR CLEANING UP

For liquid products, suck into a suitable container (made of material not incompatible with the product) and soak up any leaked product with absorbent inert material (sand, vermiculite, diatomeous earth, Kieselguhr, etc). Collect the majority of the remaining material and deposit in containers for disposal. For solid products, use spark proof mechanical tools to collect the leaked product and place in plastic containers. If there are no contraindications, use jets of water to eliminate product residues. Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

7. Handling and storage

Store in a well ventilated place, keeping the containers closed when not used. Do not smoke while handling. Keep far away from sources of heat, bright flames and sparks and other sources of ignition.

8. Exposure control / personal protection.

8.1 Exposure limit values

Name	Type	Country	TWA/8h		STEL/15min		
			mg/m3	ppm	mg/m3	ppm	
1-METHOXY-2-PROPANOL ACETATE	OEL	EU	275	50	550	100	Skin
	OEL	IRL		50		100	Skin
	WEL	UK		50		100	Skin
4-HYDROXY-4-METHYLPENTAN-2-ONE	TLV-ACGIH		238				Skin
	OEL	IRL		50		75	Skin
	WEL	UK		50		75	Skin
1-METHOXY-2-PROPANOL	TLV-ACGIH		369		553		Skin
	OEL	EU	375	100	568	150	Skin
	OEL	IRL		100		300	Skin
	WEL	UK		100		150	Skin
CYCLOHEXANONE	TLV-ACGIH		80		200		Skin
	OEL	EU	40,8	10	81,6	20	Skin
	OEL	IRL		10		20	Skin
	WEL	UK		10		20	Skin

8.2 Exposure controls

As the use of adequate technical equipment must always take priority over personal protection equipment, make sure that the workplace is well aired through effective local aspiration or bad air vent. If such operations do not make it possible to keep the concentration of the product below the permitted workplace exposure thresholds a suitable respiratory tract protection must be used. See product label for hazard details during use. Ask your chemical substance suppliers for advice when choosing personal protection equipment. Personal protection equipment must comply with the rules in force indicated below.

HAND PROTECTION

Protect hands with category I (ref. Directive 89/686/EEC and standard EN 374) work gloves, such as those in latex, PVC or equivalent. The following should be considered when choosing work glove material: degradation, breakage times and permeation. Work glove resistance to preparations should be checked before use, as it can be unpredictable. Gloves' limit depends on the duration of exposure.

EYE PROTECTION

Use of protective airtight goggles (ref. standard EN 166) recommended.

SKIN PROTECTION

Wear category I professional long-sleeved overalls and safety footwear (ref. Directive 89/686/CEE and standard EN 344). Wash body with soap and water after removing overalls.

RESPIRATORY PROTECTION

If the threshold value for one or more of the substances present in the preparation for daily exposure in the workplace or to a fraction established by the company's prevention and protection service is exceeded, wear a mask with an B or universal filter, the class (1, 2 or 3) of which must be chosen according to the limit concentration of use (ref. standard EN 141).

The use of breathing protection equipment, such as masks with organic vapour and dust/mist cartridges, is necessary in the absence of technical measures limiting worker exposure. The protection provided by masks is in any case limited.

If the substance in question is odourless or its olfactory threshold is higher than the relative exposure limit and in the event of an emergency, or when exposure levels are unknown or the concentration of oxygen in the workplace is less than 17% volume, wear self-contained, open-circuit compressed air breathing apparatus (ref. standard EN 137) or fresh air hose breathing apparatus for use with full face mask, half mask or mouthpiece (ref. standard EN 138).

9. Physical and chemical properties

Colour	various
Odour	typical of solvent
Physical state	liquid
Viscosity	Not available
Vapour density	> 1 (aria =1)
Evaporation speed	Not available
Comburent properties	Not available
Partition coefficient: n-octanol/water	Not available
pH	Not available
Boiling point	>140°C
Flash point	>21°C
Explosive properties	Not available
Vapour pressure	Not available
Specific gravity	Not available

10. Stability and reactivity

The product is stable in normal conditions of use and storage. When heated or in the event of a fire, carbon oxides may be released and vapours which are dangerous to health. The vapours may also form explosive mixtures with the air.

Diacetone alcohol decomposes to acetone and mesityl oxide when heated; in the same manner, it reacts with acids and bases and strong oxidizing agents.

1-methoxy 2-propanol absorbs and dissolves in water and in organic solvents; it dissolves different plastic material; it is stable but in the presence of air it can gradually form explosive peroxides when heated and may react with strong oxidizing agents and acids. It should be biodegradable. Stainless steel is suitable while copper and aluminium are not.

Cyclohexanone reacts violently with strong oxidizing agents and attacks different types of plastic materials (ref. H.C.S.).

11. Toxicological information

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.

Diacetone alcohol: 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.

1-METHOXY-2-PROPYLACETATE: inhalation LC50 (rat) 6,99 mg/l/4h.

12. Ecological information

No specific data are available for this product. Handle it according to good working practices. Avoid littering. Do not contaminate soil, sewers and waterways. Inform the competent authorities, should the product reach waterways or sewers or contaminate soil or vegetation.

Please take all the proper measures to reduce harmful effects on aquifers.

13. Disposal consideration

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.

CONTAMINATED PACKAGING

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

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:	1210
Packing Group:	III
Label:	3
Nr. Kemler:	30
Limited Quantity	LQ07
Tunnel restriction code	(D/E)
Proper Shipping Name:	Printing ink
Special Provision:	640E



Carriage by sea (shipping):

IMO Class:	3
UN:	1210
Packing Group:	III
Label:	3
EMS:	F-E, S-D
Marine Pollutant	NO
Proper Shipping Name:	PRINTING INK or PRINTING INK RELATED MATERIAL



Transport by air:

IATA:	3
UN:	1210
Packing Group:	III
Label:	3
Cargo:	
Packaging instructions:	310
Maximum quantity:	220 L
Pass.:	
Packaging instructions:	309
Maximum quantity:	60 L
Special Instructions:	A3, A72
Proper Shipping Name:	PRINTING INK or PRINTING INK RELATED MATERIAL



15. Regulatory information

R10 FLAMMABLE.
R67 VAPOURS MAY CAUSE DROWSINESS AND DIZZINESS.
S43 IN CASE OF FIRE, USE CHEMICAL POWDER FIRE EXTINGUISHER. DO NOT USE WATER.

Contains:

2-(2H-benzotriazol-2-il)-p-cresolo
May cause allergic reactions.

Danger labelling under directives 67/548/EEC and 1999/45/EC and following amendments and adjustments.
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.

16. Other information

Text of -R- phrases quoted in section 3 of the sheet.

R10 FLAMMABLE.
R20 HARMFUL BY INHALATION.
R22 HARMFUL IF SWALLOWED.
R34 CAUSES BURNS.
R36 IRRITATING TO EYES.
R50 VERY TOXIC TO AQUATIC ORGANISMS.
R65 HARMFUL: MAY CAUSE LUNG DAMAGE IF SWALLOWED.
R67 VAPOURS MAY CAUSE DROWSINESS AND DIZZINESS.

GENERAL BIBLIOGRAPHY

1. Directive 1999/45/EC and following amendments;
2. Directive 67/548/EEC and following amendments and adjustments (technical adjustment XXIX);
3. Regulation (EC) 1272/2008 (CLP) of the European Parliament;
4. Regulation (EC) 1907/2006 (REACH) of the European Parliament;
5. The Merck Index. - 10th Edition;
6. Handling Chemical Safety;
7. Niosh - Registry of Toxic Effects of Chemical Substances;
8. INRS - Fiche Toxicologique (toxicological sheet);
9. Patty - Industrial Hygiene and Toxicology;
10. N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition;

Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product .

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

PRODUCT FOR PROFESSIONAL USE ONLY.

Changes to previous review

The following sections were modified:

01 / 02 / 03 / 08 / 09 / 13 / 15 / 16