

Safety Data Sheet

1. Identification of the substance / preparation and the Company

1.1 Identification of the substance or preparation

Product name SERIE PLT42

1.2 Use of the substance / preparation

Intended use Screen Printing ink

1.3 Company identification

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Product distribution by EDGARDO BAGGINI

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.

Danger Symbols: Xi
R phrases: 10-38-41

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).

IRRITATING TO SKIN.

RISK OF SERIOUS DAMAGE TO EYES.

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

3. Composition / Information on ingredients

Contains:

| Name | Concentration % (C) | Classification |
|---|---------------------|--------------------------------------|
| GLYCOLIC ACID-N-BUTYL ESTER CAS No 7397-62-8 | 24 <= C < 25,5 | Xi R41 |
| XYLENE (MIXTURE OF ISOMERS) CAS No 1330-20-7 CE No 215-535-7 Index No 601-022-00-9 | 0,7 <= C < 0,8 | R10 Xn R20/21 Xi R38 Note C |

| | | | |
|--|----------------|--------------|-------------------|
| 1-METHOXY-2-PROPANOL ACETATE CAS No 108-65-6 CE No 203-603-9 Index No 607-195-00-7 | 0,8 <= C < 0,9 | Xi | R10 R36 |
| N-METHYL-2-PYRROLIDONE CAS No 872-50-4 CE No 212-828-1 Index No 606-021-00-7 | 8 <= C < 9 | Xi | R36/38 |
| 4-HYDROXY-4-METHYLPENTAN-2-ONE CAS No 123-42-2 CE No 204-626-7 Index No 603-016-00-1 | 16,5 <= C < 18 | Xi | R36 |
| CYCLOHEXANONE CAS No 108-94-1 CE No 203-631-1 Index No 606-010-00-7 | 13,5 <= C < 15 | Xn | R10 R20 |
| SOLVENT NAPHTA (PETROLEUM), LIGHT AROM CAS No 64742-95-6 CE No 265-199-0 Index No 649-356-00-4 | 1 <= C < 1,5 | Xn | R65 Note H P 4 |
| quaternary ammonium eto sulphate CAS No 68308-64-5 | 2 <= C < 2,5 | C Xn N | R34 R22 R50 |

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 all sources of ignition (cigarettes, flames, sparks, etc.) from the leakage site. 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 the leaked product before donning appropriate protective gear. For information on risks for the environmental and health, respiratory tract protection, ventilation and personal protection equipment, see 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

Use inert absorbent material (sand, vermiculite, diatomaceous earth, Kieselguhr, etc.) to soak up leaked product. Collect the majority of the remaining material and deposit it in containers for disposal. 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/m ³ | ppm | mg/m ³ | ppm | |
| XYLENE (MIXTURE OF ISOMERS) | | | | | | | |
| | TLV-ACGIH | | 434 | | 651 | | Skin |
| | OEL | EU | 221 | 50 | 442 | 100 | Skin |
| | OEL | IRL | | 50 | | 100 | Skin |
| | WEL | UK | | 50 | | 100 | Skin |
| 1-METHOXY-2-PROPANOL ACETATE | | | | | | | |
| | OEL | EU | 275 | 50 | 550 | 100 | Skin |
| | OEL | IRL | | 50 | | 100 | Skin |
| | WEL | UK | | 50 | | 100 | Skin |
| N-METHYL-2-PYRROLIDONE | | | | | | | |
| | OEL | IRL | | 25 | | | Skin |
| | WEL | UK | | 25 | | 75 | Skin |
| 4-HYDROXY-4-METHYLPENTAN-2-ONE | | | | | | | |
| | TLV-ACGIH | | 238 | | | | Skin |
| | OEL | IRL | | 50 | | 75 | Skin |
| | WEL | UK | | 50 | | 75 | 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 II (ref. Directive 89/686/EEC and standard EN 374) work gloves, such as those in PVC, neoprene, nitril 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

Wear hood visor or protective visor together with airtight goggles (ref. standard EN 166)

SKIN PROTECTION

Wear category II 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 A 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).

An emergency eye washing and shower system must be provided.

9. Physical and chemical properties

| | |
|--|---------------------------------------|
| Colour | various |
| Odour | typical of solvent |
| Physical state | liquid |
| Solubility | soluble in different organic solvents |
| 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 | >150°C |
| Flash point | >21°C |
| Explosive properties | Not available |
| Vapour pressure | Not available |
| Specific gravity | Not available |
| Solid content: | 29,36 % |
| VOC (Directive 1999/13/EC) : | 43,39 % |
| VOC (volatile carbon) : | 28,76 % |

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.

N-methyl-2-pyrrolidone is stable up to 315 °C in inert atmosphere. In the presence of air, it slowly oxidizes to form hydroperoxides. Due to thermal decomposition, it yields toxic gases of nitrogen and carbon oxides. It is completely miscible with water giving a neutral or slightly basic reaction. It doesn't attack common materials, but melts different types of plastic materials.

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

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

11. Toxicological information

Acute effects: contact with skin may cause: irritation, erythema, edema, dryness and chapped skin. Vapour inhalation may slightly irritate the upper respiratory tract. Ingestion may cause health disorders, including stomach pain and sting, nausea and sickness.

This product may cause serious ocular lesions, cornea opacity, iris lesions, irreversible eye coloration.

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.

N-METHYL-2-PYRROLIDONE: oral LD50 (mg/kg) 7000 (RAT) ; dermal LD50 (mg/kg) 7000 (RAT) ; inhalation LC50 (rat) 5,1 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 |

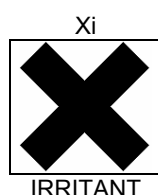


Transport by air:

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.
R38 IRRITATING TO SKIN.
R41 RISK OF SERIOUS DAMAGE TO EYES.
S25 AVOID CONTACT WITH EYES.
S26 IN CASE OF CONTACT WITH EYES, RINSE IMMEDIATELY WITH PLENTY OF WATER AND SEEK MEDICAL ADVICE.
S37/39 WEAR SUITABLE GLOVES AND EYE/FACE PROTECTION.
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.

R22 HARMFUL IF SWALLOWED.
R34 CAUSES BURNS.
R36 IRRITATING TO EYES.
R36/38 IRRITATING TO EYES AND SKIN.
R38 IRRITATING TO SKIN.
R41 RISK OF SERIOUS DAMAGE TO EYES.
R50 VERY TOXIC TO AQUATIC ORGANISMS.
R65 HARMFUL: MAY CAUSE LUNG DAMAGE IF SWALLOWED.
R10 FLAMMABLE.
R20 HARMFUL BY INHALATION.
R20/21 HARMFUL BY INHALATION AND IN CONTACT WITH SKIN.

GENERAL BIBLIOGRAPHY

1. Directive 1999/45/EC and following amendments;

COMEC ITALIA SRL
SERIE PLT42

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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