



**MODERN SPECIALTIES IN SYNTHETIC AND PLASTIC INKS**

Rondeau 1200. Ramos Mejía, Buenos Aires, Argentina.

**Phone:** 4654-0060 **Fax:** 4656-1098 **E-Mail:** laboratorio@pintesint.com

www.pintesint.com

## MATERIAL SAFETY DATA SHEET (MSDS)

HEALTH: 2  
FLAMMABILITY: 1  
REACTIVITY: 1

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Flexo Ink cured by ultraviolet light  
Trade Name: TINTA FLEXO UV (Flexo UV ink)  
Code ID and colours:  
19011 White  
19024 Yellow Polychromatic  
19031 Yellow Fluorescent  
19032 Orange Fluorescent  
19035 Magenta Fluorescent  
19036 Green Fluorescent  
19037 Blue Fluorescent  
19054 Magenta Polychromatic  
19074 Cyan Polychromatic  
19094 Black Polychromatic

Manufacturer name: PINTESINT SAICyF  
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### 2. COMPOSITION / INFORMATION ON INGREDIENTS

Acrylated monomers: 15% -40%  
Acrylated oligomers: 20% - 35%  
Photoinitiators: 4% - 10%  
Pigments: 15% -40%

### 3. HAZARDS IDENTIFICATION

#### GENERAL HEALTH EFFECTS

The possible health effects of this product are based on the hazards associated with its ingredients. The use of this product in combination with other products may produce cumulative effects on health. Caution labels and material safety data sheets used with this product should be reviewed before use.

#### EYES

Eye contact with liquid, vapour or mist can cause moderate or severe irritation, including burning, tearing, redness, or swelling.



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**SKIN**

Contact with skin may cause moderate or severe damage including redness and swelling. Repeated and prolonged contact with the skin may cause blisters (burns), dermatitis, allergic reaction and/or sensitization. The effects can be delayed and persist for several days. This material can be absorbed through the skin.

**INHALATION**

The low volatility at room temperature makes vapour inhalation unlikely. Vapours that may be generated at elevated temperatures may cause irritation of the respiratory tract. Symptoms include headache, nausea, dizziness, and intoxication.

**INGESTION**

Ingestion may cause irritation of the gastrointestinal tract.

**CHRONIC EFFECTS / ORGANS AFFECTED**

No data available

**ANIMAL STUDIES**

No data available

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE**

Pregnant women and people with medical conditions should consult their doctor before using this product. Repeated and prolonged overexposure and / or individual sensitivity may increase the risk and level of adverse health effects.

**ROUTES OF EXPOSURE**

Primary routes of exposure: dermal (contact / absorption) - inhalation - ingesting. Due to the low vapour pressure of this product, volatilization and / or minimal evaporation are anticipated under standard screen/pad printing conditions.

**4. FIRST-AID MEASURES OF ASSISTANCE**

**EYES**

After initial rinsing, remove contact lenses and continue to wash the eyes for at least 15 minutes. If irritation persists, obtain appropriate medical attention.

**SKIN**

In case of contact, immediately wash skin with soap and plenty of water for at least 15 minutes while removing contaminated clothing and shoes. It is suggested to use cold water at first to prevent the pores of the skin from opening. This will minimize the area and time of contact with the skin. Then warm water can be used to ensure that all contaminants have been removed. The skin should be controlled for possible redness or chemical burns. It is suggested to use a mild soap so as not to damage the skin and thus prevent the chemicals from penetrating the pores during cleaning. Obtain medical attention if irritation persists or significant contact has occurred. Wash clothing and shoes thoroughly before reusing.

**INHALATION**

The low volatility at room temperature makes vapour inhalation unlikely. Move person to fresh air. If not breathing, give artificial respiration or oxygen by trained personnel. Get medical attention immediately if there is difficulty breathing.



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**INGESTION**

If swallowed, DO NOT induce vomiting. Call a poison control centre or doctor immediately. Never give anything by mouth to an unconscious person.

**5. FIRE FIGHTING MEASURES**

**COMBUSTIBLE 3**

**EXTINGUISHING MEDIA**

Use CO<sub>2</sub>, or chemical dust for small fires. For large fires, use foam or water spray.

**FIRE EXTINGUISHING EQUIPMENT**

Wear self-contained breathing apparatus and safety glasses (or goggles) to prevent splashes or contact with vapours. Wear gloves, apron and boots.

**SPECIAL METHODS FOR FIRE EXTINGUISHING**

Water may be ineffective but may be used to cool containers. Vapours emitted during incineration can be toxic and hazardous.

**6. ACCIDENTAL RELEASE MEASURES**

Remove all sources of ignition (flames, hot surfaces and electrical, static, or frictional sparks). Avoid contact with the product and inhalation of vapours. Ventilate the area.

Contain spill and dispose of with an inert absorbent. Use non-sparking tools to put the material in a suitable container to dispose of. Isolate the risk area and deny entry to unnecessary and unprotected personnel.

**7. HANDLING AND STORAGE**

Use adequate ventilation, if possible in combination with good extraction. Do not eat or drink during use. Keep away from oxidizing agents; save in environments below 35 °C (95 °F): and with very good air supply as reaction inhibitor. Store in cool, dry areas protected from sunlight. Keep away from sources of ignition - no smoking. Keep containers tightly closed in a well-ventilated place.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

Wear eye and face protection, protective clothing and appropriate gloves (neoprene or nitrile rubber). Use adequate ventilation, combined with good extraction. Be exposed as little time as possible.

Wash hands before taking a break or leave work. Put on separate work clothes.

**OTHER PROTECTION**

Notes on UV Equipment: UV ovens used in the curing of this product produce ultraviolet radiation which may cause adverse biological effects. Typical symptoms are similar to sunburn (redness and dryness of the skin, inflammation of the eyes, pain, tearing, temporary blindness, etc.). Personal protective equipment should minimize this risk.

The ozone produced by the equipment lamp should not be inhaled, it should be ventilated outdoors.



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**9. PHYSICAL AND CHEMICAL PROPERTIES**

Physical State:	Liquid with odour to coloured acrylate.
Viscosity (25 °C / 77 °F):	1000 - 2000 cps (Brookfield)
Solids %:	99 ± 1 %P/P
Specific Weight:	1 g/cm <sup>3</sup> for colours 1.25 g/cm <sup>3</sup> for white
Solubility:	Soluble in organic solvents INSOLUBLE IN WATER
Flash Point:	no data
Vapour Pressure:	< 0.01 mm Hg.

**10. STABILITY AND REACTIVITY**

**CHEMICAL STABILITY**

Stable: under recommended storage and handling conditions.

**CONDITIONS TO AVOID**

Avoid high temperatures, UV and EB radiation.

**INCOMPATIBILITY WITH OTHER MATERIALS**

Strong acids/bases, oxidizing/reducing agents and reactive chemicals.

**HAZARDOUS DECOMPOSITION PRODUCTS**

May produce hazardous vapours when is heated to decomposition; CO, CO<sub>2</sub> and other harmful gases.

**HAZARDOUS POLYMERIZATION**

It's very unlikely under normal printing and storage conditions.

It can occur if the product is exposed to abnormally high temperatures (> 95 ° C).

**11. TOXICOLOGICAL INFORMATION**

The frequent or continuous contact with the skin causes irritation and possible dermatitis.

**12. ECOLOGICAL INFORMATION**

No experimental data available on this product. Keep product away from sources or watercourses.

**13. DISPOSAL CONSIDERATIONS**

Follow municipal, provincial and national legal regulations for the elimination of sub-products and waste.  
Recommendation: Incinerate. Contaminated containers may be used after cleaning.



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**14. TRANSPORT INFORMATION**

General:	<b>COMBUSTIBLE 3</b>
Transport Classification:	<b>3</b>
United Nations Number:	<b>1210</b>
N° IMO:	<b>3</b>

**15. LEGAL INFORMATION**

Hazard Symbol: Xi

**16. OTHER INFORMATION**

No additional information

This information only refers to the product mentioned above and should not be valid for other product (s) or for any process. The information is, according to our best correct and complete knowledge. It is provided in good faith but without guarantee. It remains the responsibility of the user that this information is appropriate and complete for the special use of this product.

**IMPORTANT NOTE**

- I. The inks formulated by Pintesint SAICyF must be used exclusively with the solvents and the complementary products that it manufactures for that purpose. Due to the diversity of products in the market, the company is not responsible for the use of the same from another source.
- II. The suggestions and data of this literature were elaborated in good faith, to guide the user. We recall the importance of checking the adaptability of inks and complementary products by testing before starting production. Due to the fact that the conditions of use of the products are not under our control, the present does not constitute a guarantee on the work to be done.