

SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name FN INK WHITE

1.2. Relevant identified uses of the substance or mixture and uses advised against

Intended use Textile industry.

1.3. Details of the supplier of the safety data sheet

Name ACHITEX MINERVA S.p.A.

Full address Via Degli Artigiani n.6

District and Country 26010 Vaiano Cremasco (CR)
Italia

Tel. +390373279711 Fax +390373279775

E-mail address of the competent person responsible for the Safety Data Sheet sds@gruppoachitex.com

1.4. Emergency telephone number

For urgent inquiries refer to ACHITEX MINERVA S.p.a.: tel. +390373279711 (only office hours) Centro Antiveleni Ospedale Milano Niguarda: tel. +390266101029

SECTION 2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

The product is not classified as hazardous pursuant to the provisions set forth in EC Regulation 1272/2008 (CLP). However, since the product contains hazardous substances in concentrations such as to be declared in section no. 3, it requires a safety data sheet with appropriate information, compliant to (EU) Regulation 2015/830.

Hazard classification and indication: –

2.2. Label elements

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms: –

Signal words: –

Hazard statements: **EUH210** Safety data sheet available on request.

Precautionary statements: –

2.3. Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage \geq than 0,1%.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Dispersion of titanium dioxide in plastisol.

3.1. Substances

Information not relevant

3.2. Mixtures

Contains:

Identification x = Conc. %

Classification 1272/2008 (CLP)

Dipropylene glycol, dibenzoate

CAS 27138-31-4 $1 \leq x < 5$

Aquatic Chronic 3 H412

EC 248-258-5

INDEX

Reg. no. 01-2119529241-49-xxxx

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

SECTION 4. FIRST AID MEASURES

4.1. Description of first aid measures

No episodes of harm to the staff authorised to use the product have been reported. The following general measures should be adopted as necessary:

EYES and SKIN: Wash with plenty of water. In the event of persistent irritation, get medical advice/attention.

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

INGESTION: Get medical advice/attention. Induce vomiting only if indicated by the doctor. Do not give anything by mouth to an unconscious person.

4.2. Most important symptoms and effects, both acute and delayed

Specific information on symptoms and effects caused by the product are unknown.

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

The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray.

UNSUITABLE EXTINGUISHING EQUIPMENT

None in particular.

5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE 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. 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

Before handling the product, consult all the other sections of this material safety data sheet. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use. Wash hands after use.

7.2. Conditions for safe storage, including any incompatibilities

Keep the product in clearly labelled containers. Store the containers sealed, in a well ventilated place, away from direct sunlight.

7.3. Specific end use(s)

Information not available

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

| Dipropylene glycol, dibenzoate | | |
|-------------------------------------------------------|---------|-------|
| Predicted no-effect concentration - PNEC | | |
| Normal value in fresh water | 0,0037 | mg/l |
| Normal value in marine water | 0,00037 | mg/l |
| Normal value for fresh water sediment | 1,49 | mg/kg |
| Normal value for marine water sediment | 0,149 | mg/kg |
| Normal value of STP microorganisms | 10 | mg/l |
| Normal value for the food chain (secondary poisoning) | 333 | mg/kg |
| Normal value for the terrestrial compartment | 1 | mg/kg |

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION ... / >>

| Health - Derived no-effect level - DNEL / DMEL | | | | | | | | | |
|------------------------------------------------|----------------------|-----------------------|---------------|------------------------|--------------------|-------------------------|---------------|-----------------------|--|
| Route of exposure | Effects on consumers | | | | Effects on workers | | | | |
| | Acute local | Acute systemic | Chronic local | Chronic systemic | Acute local | Acute systemic | Chronic local | Chronic systemic | |
| Oral | | 80 mg/kg bw/d | | 5 mg/kg bw/d | | | | | |
| Inhalation | | 8,7 mg/m ³ | | 8,69 mg/m ³ | | 35,08 mg/m ³ | | 8,8 mg/m ³ | |
| Skin | | 80 mg/kg bw/d | | 0,22 mg/kg bw/d | | 170 mg/kg bw/d | | 10 mg/kg bw/d | |

Legend:

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.

| | |
|---------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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 Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing. |
| 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 B 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. |

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

| Properties | Value | Information |
|----------------------------------------|------------------------|-------------|
| Appearance | paste | |
| Colour | white | |
| Odour | Not available | |
| Odour threshold | Not available | |
| pH | Not available | |
| Melting point / freezing point | Not available | |
| Initial boiling point | Not available | |
| Boiling range | Not available | |
| Flash point | Not available | |
| Evaporation Rate | Not available | |
| Flammability of solids and gases | Not available | |
| Lower inflammability limit | Not available | |
| Upper inflammability limit | Not available | |
| Lower explosive limit | Not available | |
| Upper explosive limit | Not available | |
| Vapour pressure | Not available | |
| Vapour density | Not available | |
| Relative density | 1,65 g/cm ³ | |
| Solubility | insoluble in water | |
| Partition coefficient: n-octanol/water | Not available | |
| Auto-ignition temperature | Not available | |
| Decomposition temperature | Not available | |
| Viscosity | Not available | |
| Explosive properties | 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.

10.2. Chemical stability

The product is stable in normal conditions of use and storage.

10.3. Possibility of hazardous reactions

No hazardous reactions are foreseeable in normal conditions of use and storage.

10.4. Conditions to avoid

None in particular. However the usual precautions used for chemical products should be respected.

10.5. Incompatible materials

Information not available

10.6. Hazardous decomposition products

Information not available

SECTION 11. TOXICOLOGICAL INFORMATION

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.

11.1. Information on toxicological effects

| | |
|--------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|
| Metabolism, toxicokinetics, mechanism of action and other information | Information not available |
| Information on likely routes of exposure | Information not available |
| Delayed and immediate effects as well as chronic effects from short and long-term exposure | Information not available |
| Interactive effects | Information not available |
| ACUTE TOXICITY | ATE (Inhalation) of the mixture: Not classified (no significant component) |
| | ATE (Oral) of the mixture: Not classified (no significant component) |
| | ATE (Dermal) of the mixture:w Not classified (no significant component) |
| SKIN CORROSION / IRRITATION | Does not meet the classification criteria for this hazard class |
| SERIOUS EYE DAMAGE / IRRITATION | Does not meet the classification criteria for this hazard class |
| RESPIRATORY OR SKIN SENSITISATION | Does not meet the classification criteria for this hazard class |
| GERM CELL MUTAGENICITY | Does not meet the classification criteria for this hazard class |
| CARCINOGENICITY | Does not meet the classification criteria for this hazard class |
| REPRODUCTIVE TOXICITY | Does not meet the classification criteria for this hazard class |
| STOT - SINGLE EXPOSURE | Does not meet the classification criteria for this hazard class |
| STOT - REPEATED EXPOSURE | Does not meet the classification criteria for this hazard class |
| ASPIRATION HAZARD | Does not meet the classification criteria for this hazard class |

SECTION 12. ECOLOGICAL INFORMATION

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation.

| | |
|-------------------------------------------------|--------------------------------------------------------------------------------------------------------------|
| 12.1. Toxicity | Information not available |
| 12.2. Persistence and degradability | Information not available |
| 12.3. Bioaccumulative potential | Information not available |
| 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 \geq than 0,1%. |
| 12.6. Other adverse effects | Information not available |

SECTION 13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Reuse, when possible. Neat product residues should be considered special non-hazardous waste. 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.

SECTION 14. TRANSPORT INFORMATION

The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

| | |
|---------------------------------------------------------------------------------|--------------------------|
| 14.1. UN number | Not applicable |
| 14.2. UN proper shipping name | Not applicable |
| 14.3. Transport hazard class(es) | Not applicable |
| 14.4. Packing group | Not applicable |
| 14.5. Environmental hazards | Not applicable |
| 14.6. Special precautions for user | Not applicable |
| 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code | Information not relevant |

SECTION 15. REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

| | |
|----------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
| Seveso Category - Directive 2012/18/EC: | None |
| Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006 | Product Point 40 |
| Substances in Candidate List (Art. 59 REACH) | On the basis of available data, the product does not contain any SVHC in percentage \geq than 0,1%. |
| Substances subject to authorisation (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: | None |
| Healthcare controls | Information not available |

15.2. Chemical safety assessment

A chemical safety assessment has been performed for the following contained substances
 Dipropylene glycol, dibenzoate

SECTION 16. OTHER INFORMATION

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

| | |
|--------------------------|------------------------------------------------------------------|
| Aquatic Chronic 3 | Hazardous to the aquatic environment, acute toxicity, category 3 |
| H412 | Harmful to aquatic life with long lasting effects. |
| EUH210 | Safety data sheet available on request. |

LEGEND:

- **ADR:** European Agreement concerning the carriage of Dangerous goods by Road
- **CAS NUMBER:** Chemical Abstract Service Number
- **CE50:** Effective concentration (required to induce a 50% effect)
- **CE NUMBER:** Identifier in ESIS (European archive of existing substances)
- **CLP:** EC Regulation 1272/2008
- **DNEL:** Derived No Effect Level
- **EmS:** Emergency Schedule
- **GHS:** Globally Harmonized System of classification and labeling of chemicals
- **IATA DGR:** International Air Transport Association Dangerous Goods Regulation
- **IC50:** Immobilization Concentration 50%
- **IMDG:** International Maritime Code for dangerous goods
- **INDEX NUMBER:** Identifier in Annex VI of CLP
- **LC50:** Lethal Concentration 50%
- **LD50:** Lethal dose 50%
- **OEL:** Occupational Exposure Level
- **PBT:** Persistent bioaccumulative and toxic as REACH Regulation
- **PEC:** Predicted environmental Concentration
- **PEL:** Predicted exposure level
- **PNEC:** Predicted no effect concentration
- **REACH:** EC Regulation 1907/2006
- **RID:** Regulation concerning the international transport of dangerous goods by train
- **TLV:** Threshold Limit Value
- **TLV CEILING:** Concentration that should not be exceeded during any time of occupational exposure.
- **TWA STEL:** Short-term exposure limit
- **TWA:** Time-weighted average exposure limit
- **VOC:** Volatile organic Compounds
- **vPvB:** Very Persistent and very Bioaccumulative as for REACH Regulation
- **WGK:** Water hazard classes (German).

GENERAL BIBLIOGRAPHY

1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
3. Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament
4. Regulation (EU) 2015/830 of the European Parliament
5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
12. Regulation (EU) 2016/1179 (IX Atp. CLP)
13. Regulation (EU) 2017/776 (X Atp. CLP)
14. Regulation (EU) 2018/669 (XI Atp. CLP)
15. Regulation (EU) 2018/1480 (XIII Atp. CLP)
16. Regulation (EU) 2019/521 (XII Atp. CLP)
17. Regulation (EU) 2019/1148
18. Regulation (EU) 2020/217 (XIV Atp. CLP)
- The Merck Index. - 10th Edition
- Handling Chemical Safety
- INRS - Fiche Toxicologique (toxicological sheet)
- Patty - Industrial Hygiene and Toxicology
- N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- ECHA website
- Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy

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. Provide appointed staff with adequate training on how to use chemical products.

CALCULATION METHODS FOR CLASSIFICATION

Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for evaluation of chemical-physical properties are reported in section 9.

Health hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determined otherwise in Section 11.

Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12.

Changes to previous review:

The following sections were modified:

08 / 12.