47193-5046

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SAFETY DATA SHEET

ACCORDING TO ANNEX II TO REACH - REGULATION 2015/830

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

1.1. Product identifier

Product name	FN INK NAVY BLUE

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 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 (EU) Regulation 2015/830.
Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard classification and indication:

Hazardous to the aquatic environment, chronic toxicity, category 3	H412	Harmful to aquatic life with long lasting effects.

2.2. Label elements

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

Hazard pictograms:	–	
Signal words:	–	
Hazard statements:	H412	Harmful to aquatic life with long lasting effects.
Precautionary statements:	P273	Avoid release to the environment.

2.3. Other hazards

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

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SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Pigments dispersion in plastisol.

3.1. Substances Information not relevant

3.2. Mixtures

Contains:

Identification	x = Conc. %	Classification 1272/2008 (CLP)
Polar acid ester of fatty alcohols		
CAS	162627-31-8 0,5 ≤ x < 1	Eye Irrit. 2 H319, Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1
EC		
INDEX		

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

No episodes of damage to health ascribable to the product have been reported.

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).

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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. Remove any contaminated clothes and personal protective equipment before entering places in which people eat.

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. 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 Information not available

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.

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	None required, unless indicated otherwise in the chemical risk assessment.
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.

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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Properties	Value	Information
Appearance	paste	
Colour	blue	
Odour	odourless	
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	1,2 g/cm3	
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

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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

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	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 ≥ than 0,1%.
12.6. Other adverse effects	Information not available

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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 3
Substances in Candidate List (Art. 59 REACH)	On the basis of available data, the product does not contain any SVHC in percentage ≥ 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 not been performed for the preparation/for the substances indicated in section 3.

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SECTION 16. OTHER INFORMATION

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

Eye Irrit. 2	Eye irritation, category 2
Aquatic Acute 1	Hazardous to the aquatic environment, acute toxicity, category 1
Aquatic Chronic 1	Hazardous to the aquatic environment, chronic toxicity, category 1
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic toxicity, category 3
H319	Causes serious eye irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

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

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SECTION 16. OTHER INFORMATION ... / >>

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:
02 / 03 / 06 / 07 / 08 / 11 / 12 / 13 / 15 / 16.