

MATERIAL SAFETY DATA SHEET

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

♦ 1.1 - IDENTIFICATION OF THE SUBSTANCE OR PREPARATION

PRODUCT N° : Andreia Professional Lab anti-imperfection base coat
PRODUCT CLASS : Nail Care

♦ 1.2 - FINAL USE

Application of nail polish

♦ 1.3 - COMPANY IDENTIFICATION

COMPANY : Higicol S.A.
Rua Santos Dias n.º 1121;
4465-255 São Mamede de Infesta
Portugal
☎ +351 229758833
FAX +351 229758835
Mail: info@higicol.com

♦ 1.4 - EMERGENCY TELEPHONE NUMBER

☎ +351 229758833 (09h00-13h00/14h00-18h00)
Outside these slots, contact your national emergency number

SECTION 2: HAZARDS IDENTIFICATION

IDENTIFICATION OF THE SUBSTANCE OR MIXTURE



F; FLAMMABLE



Xi ; IRRITATING

R11: Highly Flammable. Vapors form from this product and may travel or be moved by air currents and ignited by pilot lights, other flames, sparks, heaters, electrical equipment, static discharges or other ignition sources at locations distant from product handling point. This material may produce a floating fire hazard.

♦ **2.2 LABEL ELEMENTS**

F Flammable



Xi Irritating

RISK PHRASES:

11 Highly Flammable
36 Irritating to eyes
66 Repeated exposures may cause skin dryness and cracking
67 Vapors may cause drowsiness and dizziness

SAFETY PHRASES:

16 Keep away from sources of ignition – No smoking
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
33 Take precautionary measures against static discharges

♦ **2.3 OTHER HAZARDS**

The mixture contains no substance conforming to the PBT/vPvB criteria of REACH Regulation.

SECTION 3: COMPOSITION/INFORMATIONS ON INGREDIENTS♦ **3.1 MIXTURE**

- CHEMICAL CHARACTERIZATION
Nitrocellulose with nitrogen content < 12.2 % and at a concentration < 20 % in a blend of solvents.
- HAZARDOUS COMPONENTS

INGREDIENT	HAZARD SYMBOL (CE) No 1272/2008	HAZARD SYMBOL 67/548/CEE ou 1999/45/CE	CONCENTRATION	REGISTRATION NUMBER
BUTYL ACETATE CAS : 123-86-4	FLAM. LIQ. 3 H226 ACUTE TOX. 3 H336	R10, R66, R67	36.0 - 45.0 %	01-2119485493-29-XXXX
ETHYL ACETATE CAS : 141-78-6	FLAM. LIQ. 2 H225 EYE IRRIT. 2 H319 ACUTE TOX. 3 H336	F R11 Xi R36, R66, R67	17.0 – 23.0 %	01-2119475103-46-XXXX
NITROCELLULOSE CAS : 9004-70-0	FLAM. LIQ. 1 H224	F R11	11.0 – 15.0 %	Polymer
ISOPROPYL ALCOHOL CAS : 67-63-0	FLAM LIQ. 2 H225 EYE IRRIT. 2 H319 STOT SE 3 H336	F R11 Xi R67	5.0 – 6.0 %	01-2119457558-25-XXXX

- ADDITIONAL INFORMATION
For the wording of the listed risk phrases refer to section 16.

SECTION 4: FIRST AID MEASURES♦ **4.1 - DESCRIPTION OF FIRST AID MEASURES**

- SKIN CONTACT
Remove contaminated clothing and wash before reuse. Remove and destroy contaminated shoes. Flush with plenty of water.
- INHALATION
Remove to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen. Get medical attention.

- **INGESTION**
Get medical attention **IMMEDIATELY**.
- **EYE CONTACT**
Immediately wash the eyes with plenty of water for at least 10 min holding the eye open. Obtain medical attention urgently.

♦ **4.2 - MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED**

- **EFFECTS OF OVEREXPOSURE**
Cause eye irritation. Harmful if swallowed. May cause nose and throat irritation. Causes skin irritation. May affect the brain or nervous system causing: dizziness, headache or nausea.
Harmful if inhaled.
- **OTHER EFFECTS OF OVEREXPOSURE MAY INCLUDE**
Narcosis, conjunctivitis, loss of coordination, vomiting, lacrimation, redness and swelling of eyes, difficulty with speech, reduced visibility, abdominal pain, swelling and redness of skin, fatigue, cough, dermatitis, drowsiness, unconsciousness.
- **PRIMARY ROUTE(S) OF ENTRY**
Inhalation, skin contact, eyes.
- **MEDICAL CONDITIONS THAT CAN BE AGGRAVATED : NA**
- **CHRONIC HEALTH HAZARDS**
- **REPEATED OVEREXPOSURE TO THIS PRODUCT MAY CAUSE**
Lung damage, liver abnormalities, kidney damage, central nervous system damage, blood effects.
In accordance with 29CFR1910.1200, this product contains no ingredients listed by NTP, IARC or OSHA as carcinogenic.
- **NOTICE**
Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents of this package may be harmful or fatal.

♦ **4.3 - IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED**

No further relevant information available

SECTION 5: FIREFIGHTING MEASURES

♦ **5.1 - EXTINGUISHING MEDIA**

Foam, Carbon Dioxide or Dry Chemical.

♦ **5.2 - SPECIAL FIREFIGHTING PROCEDURES**

Water may be ineffective in fighting fire. If water is used to cool closed containers to prevent pressure build-up, fog nozzles are preferred. Full protective equipment, including self-contained breathing apparatus is needed to protect fire-fighters from exposure to coating's hazardous ingredients and hazardous decomposition products.

♦ **5.3 - FOR FIREFIGHTERS**

During emergency conditions, overexposure to decomposition products may cause a health hazard; symptoms may not be immediately apparent. Obtain medical attention.

SECTION 6: ACCIDENTAL RELEASE MEASURES

♦ **6.1 - PERSONAL PRECAUTIONS**

Avoid contact with the skin and the eyes. Keep away from heat and sources of ignition. Provide adequate ventilation.

♦ **6.2 - ENVIRONMENTAL PRECAUTIONS**

Prevent further leakage or spillage. Do not discharge into the drains/surface waters/groundwater.

◆ 6.3 - METHODS FOR CLEANING UP

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal. Dispose of in accordance with local regulations.

◆ 6.4 - ADDITIONAL INFORMATION

Consult trained personnel. Consider the information for "Personal Protection" in chapter 8 of this Safety Data Sheet.

SECTION 7: HANDLING AND STORAGE**◆ 7.1 - PRECAUTIONS FOR SAFE HANDLING**

When using, do not eat, drink or smoke. Take off all contaminated clothing immediately. Wash hands before breaks and immediately after handling the product.

Provide sufficient air exchange and/or exhaust in work rooms.

◆ 7.2 - PRECAUTIONS FOR SAFE STORAGE

Store in a well-ventilated area. Keep containers (solvent resistant) closed when not in use. Store away from ignition sources. All equipment should be grounded. Avoid strong oxidizing agents, store in a clean, dry area.

◆ 7.3 - OTHER PRECAUTIONS

All precautions must be observed. Empty container may retain product residues (vapour or liquid).

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION**◆ 8.1 - EXPOSURE LIMITS**

COMPOSANT	CAS N°	DESC.	VALEUR	UNITE	COMMENTAIRES
BUTYL ACETATE <Acetic acid, Butyl Ester>	123-86-4	Press de Vap	15.0	mm/Hg	25°C
		Press de Vap	45.0	mm/Hg	50°C
		PEL-TWA	150.0	ppm	
		TLV-STEL	200.0	ppm	15 Minutes
		PEL-STEL	200.0	ppm	15 Minutes
ETHYL ACETATE	141-78-6	Press de Vap	100.00	mm/Hg	27 °C
		Press de Vap	200.00	mm/Hg	42°C
		PEL-TWA	400.0	ppm	
ISOPROPANOL <ISOPROPYL ALCOHOL>	67-63-0	Press de Vap	40.0	mm/Hg	23.8°C
		Press de Vap	100.0	mm/Hg	39.5°C
		PEL-TWA	400.0	ppm	
		TLV-STEL	500.0	ppm	15 Minutes
		PEL-STEL	500.0	ppm	15 Minutes

◆ 8.2 - PERSONAL PROTECTION**• RESPIRATORY PROTECTION**

Wear an appropriate, properly fitted respirator (NIOSH/MSHA approved) during application and handling unless air monitoring demonstrates vapour / mist levels below applicable limits. Follow respirator manufacturer's recommendations for selection and use.

• VENTILATION

Sufficient ventilation must be provided to maintain airborne concentrations below TLV, PEL and LEL Limits as listed in Section 8.

• PROTECTIVE GLOVES

Chemical resistant protective gloves (such as Neoprene or Butyle rubber) should be worn when handling this product. Check with glove manufacturer to determine proper glove type.

- **EYE PROTECTION**
Splash-proof chemical goggles should be worn.
- **OTHER PROTECTIVE EQUIPMENT**
Impervious clothing and boots should be worn. Eye bath and safety shower should be provided.
- **HYGENIC PRACTICES**
Good personal hygiene practices are required at all times when handling chemicals. These practices include, but are not limited to, washing when safety equipment is removed, at the end of each shift or when going on breaks and especially if contamination occurs.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

FORM	: Viscous liquid	
COLOUR	: Clear	
ODOUR	: Fruity (Esters)	
OLFACTIVE THRESHOLD	: 50 ppm (Ethyl Acetate)	
MELTING POINT	: - 84 °C (Ethyl Acetate)	
BOILING POINT	: 77°C at 1013 hPa (Ethyl Acetate)	
BOILING RANGE	: 77 to 130°C	
SPECIFIC GRAVITY	: 0.980 - 1.020	
VAPOUR PRESSURE (hPa)	: 100 (20°C) (Ethyl Acetate)	
VAPOUR DENSITY (Relative : Air = 1)	: 3.04 (Ethyl Acetate)	
FLASH POINT	: - 5 °C	
AUTO IGNITION TEMPERATURE	: 460 °C	
FLAMMABLE LIMITS (% v /v)	: <u>Upper</u>	<u>Lower</u>
Ethyl Acetate	11.0	2.2
Butyl Acetate	7.6	1.7
Isopropanol	12.0	1.8
pH	: Not applicable	
SOLUBILITY IN WATER	: Insoluble	
WATER/OCTANOL DISTRIBUTION COEFFICIENT	: Log Kow = 0.60 (Ethyl Acetate)	
EVAPORATION RATE	: Slower than ether	
VISCOSITY (Brookfield)	: 650 to 1050 mPa.s	

SECTION 10: STABILITY AND REACTIVITY

♦ 10.1 - REACTIVITY

Material is **STABLE** under non-emergency conditions.

♦ 10.2 - CHEMICAL STABILITY

Material **WILL NOT** undergo hazardous polymerization.

♦ 10.3 - HAZARDOUS REACTION

Not known.

♦ 10.4 - CONDITIONS TO AVOID

Heat, sparks, open flame.

♦ 10.5 - MATERIALS TO AVOID

Sodium hydroxide, nitric acid, oxidizers, acids, alkali, metal, amines.

♦ 10.6 - HAZARDOUS DECOMPOSITION PRODUCTS

Methane, oxides of nitrogen. Carboxylic acids, various hydrocarbons, oxides of carbon, aldehydes, hydrogen cyanide, acids.

SECTION 11: TOXICOLOGICAL INFORMATION

INGREDIENT	LD50 (Oral, Rat)	LC50 (Inhal, Rat)	LC50 (Dermal, Rabbit)
BUTYL ACETATE	14000 mg/Kg	2000 ppm	
ETHYL ACETATE	11300 mg/Kg	1600 ppm (8h)	
ISOPROPYL ALCOHOL	5840 mg/Kg	16000 ppm (8h)	13000 mg/Kg

- **INGESTION**
Important ingestion can cause nausea and a great narcosis with weakness, drowsiness and loss of consciousness.
- **INHALATION**
Can cause irritation of the nose and throat. At high concentration can cause narcosis.
- **CONTACT WITH THE SKIN**
Prolonged contact can cause crack in skin.
- **CONTACT WITH THE EYES**
Can cause irritation of the conjunctive. Can cause injury of the cornea.

SECTION 12: ECOTOXICOLOGICAL INFORMATION

Any reject of this product in the sewer or stream must be avoided.

WATER HAZARD CLASS

WGK1: Slightly hazardous for water

SECTION 13: DISPOSAL CONSIDERATIONS

Incinerate in a furnace where permitted under national and local regulations.

SECTION 14: TRANSPORT INFORMATION

• ROAD TRANSPORT

Technical name : PERFUMERY PRODUCTS WITH FLAMMABLE LIQUIDS (Source of danger: Ethyl acetate, Butyl acetate, Nitrocellulose, Isopropyl alcohol)

ADR Class : 3

ADR Pack group : II

Tunnels Restriction Code : D/E

Danger label : 3

Kemler number : 33

UN Number : 1266

• MARITIME TRANSPORT

Technical name : PERFUMERY PRODUCTS WITH FLAMMABLE LIQUIDS (Source of danger: Ethyl acetate, Butyl acetate, Nitrocellulose, Isopropyl alcohol)

UN Number : 1266

IMDG Class : 3

Marine pollutant : No

Ems Number : F-E, S-D

IMDG Pack Group : II

Danger label : 3

Flash point : -5°C

Other indications relative to maritime transport:

- Not viscous product as per IMDG code 2.3.2.5
- Limited Quantity: 5l/30kg (gross)
- Certified packaging: Internal packaging metal, glass, plastic
External packaging: Carton 4G

• IATA	
Technical name	: PERFUMERY PRODUCTS WITH FLAMMABLE LIQUIDS (Source of danger: Ethyl acetate, Butyl acetate, Nitrocellulose, Isopropyl alcohol)
UN Number	: 1266
IATA Class	: 3
Danger label	: 3
Pack Group	: II
Packing instr	: 353(Passenger) – Maximum Quantity 5l 364(Cargo) – Maximum Quantity 60l

SECTION 15: REGULATORY INFORMATIONS

No other data.

SECTION 16: OTHER INFORMATIONS

Relevant Phrases

H224	Extremely flammable liquid and vapor
H225	Highly flammable liquid and vapor
H226	Flammable liquid and vapor
H319	Cause serious eye irritation
H336	May cause drowsiness and dizziness

R10	Flammable
R11	Highly Flammable
R66	Repeated exposures may cause skin dryness and cracking
R67	Vapors may cause drowsiness and dizziness

DISCLAIMER OF LIABILITY: the Information contained in this Material Safety Data Sheet was obtained from sources, which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge.

For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.

This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable.