Safety data sheet in accordance with regulation (EC) No 1907/2006

Trade Name: Evolution NX Direct Print Inks
Revision date: January 2021
Revision no: 2

SECTION 1: Identification of the substance/mixture and of the company / undertaking

1.1 Product identifier: NX EVOLUTION DIRECT PRINT INKS
Series 6500, 6550, 6600, 6700, 6581, 6582, 6801Foil Resist, 6820, 6835, 6838, 6711

1.2 Uses/Application: Screen printing ink

1.3 Details of the supplier of the safety data sheet

Address

Lancer Group International
311 Saulteaux Crescent
Winnipeg, Manitoba
Canada R3J 3C7
Telephone no: +1 (204) 889-7422
Fax no: +1 (204) 8310426
Information provided by: Product Safety Department
Email address of the person responsible for this SDS: cecilia@lancergroup.com

Emergency: New Zealand: 0800 POISON (0800 764 766)
Supplier Details
Hitec-Ink
Unit 4 / 231 Annex Road
Middleton 8025
Ph 03 6660100

1.4 24 Hour Emergency Number: +1 (888) 226-8832 CANUTEC

SECTION 2: Hazard identification

2.1 Classification of the substance or mixture

2.1.1 Classification according to Regulation (EU) 1272/2008: Not classified
Not a hazardous substance or mixture according to regulation (EC) 1272/2008
2.1.2 Classification according to EU Directives 67/548/EC or 1999/45EC: not classified
This product is not classified as dangerous according to directive 67/548/EEC
2.1.3 WHMIS Classification: Not WHMIS controlled
2.1.4 GHS Classification: Not a dangerous substance or mixture

2.2 Label Elements

2.2.1 Labelling according to Regulation (EU) 1272/2008: Not applicable
2.2.2 Labelling according to Directives (67/548; 1999/45): Not relevant

2.3 Other Hazards

Effects of over exposure: Fumes emitted during fusion may irritate the eyes, skin or respiratory tract

Chronic Effects: Skin sensitization may occur in some cases

SECTION 3: Composition / Information on ingredients

3.1 Substances

There are no hazardous ingredients as defined under OSHA Regulations 29 CFR 1910.1200
No substances fulfill the criteria set forth in Annex II section A of REACH regulation 1907/2006

3.2 Mixtures

Chemical Characterization:

Screen printing ink based phthalate free plasticizers, additives and acrylic resin

Ingredients	%	CAS#	Classification according to directive 76/548/EEC	Classification according to directive 1272/2008
Plasticizer phthalate free	35-45%	Mixture	Not classified	Not classified
Calcium carbonate	10-20%	7789-78-8	Not classified	Not classified
Fume silica	1-5%	112945-52-5	Not classified	Not classified
Methacrylate resin	25-35%	Mixture	Not classified	Not classified

Composition comments: This product does not contain any known currently listed hazardous materials nor do they contain any carcinogenic or suspected carcinogenic agents.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and seek medical advice.

After inhalation

Remove to fresh air. Keep the patient warm and at rest. If the person is unconscious, place in recovery position. Notify a doctor in all events to ascertain whether observation and supportive hospital care is necessary.

After skin contact

Remove contaminated clothing and wash the skin thoroughly with soap and water. In the event of allergic reaction, seek medical attention.

After eye contact

Immediately flush eyes with water for 15 minutes holding the eyelids open. If there is any redness, pain or visual impairment, consult an ophthalmologist.

After ingestion

If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Do NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

No data available

4.3 Indication of any immediate medical attention and special treatment needed

Hints for the physician / treatment

Treat symptomatically

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

In the event of fire use carbon dioxide, dry chemical agents, foam.

5.2 Special hazards arising from the substance or mixture

A fire will often produce a thick black smoke. Exposure to decomposition product may be hazardous to health. Do not breathe smoke. In the event of fire, carbon monoxide (CO) and carbon dioxide (CO2) may be formed.

5.3 Advice for firefighters

Fire- fighting personnel should be equipped with self- contained breathing apparatus

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid inhaling vapors. Avoid any contact with skin or eyes. If large quantity has been spilled, evacuate all personnel and allow intervention by trained operators with safety apparatus. Only qualified personnel with suitable protective equipment may intervene.

6.2 Environmental precautions

Do not allow to enter drains or waterways. If the product contaminates lakes, rivers, sewage, inform appropriate authorities in accordance with local regulations.

6.3 Methods and material for containment and cleaning up

Scoop the material into a clean, properly labelled container for disposal. Absorb remainder with inert material**.**

6.4 Reference to other sections

Refer to section 8

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling

Handle and open containers with care. Avoid eye contact. Avoid excessive or repeated skin contact. Keep the containers closed when not in use. Handle in well ventilated areas. Prevent access by unauthorized personnel. Handle in accordance with good industrial hygiene and safety practice. Wash hands before taking meal breaks and immediately after handling product. Do not eat, drink or smoke when using the product. Remove and wash contaminated clothing before re-use.

7.2 Conditions for safe storage, including any incompatibilities

Storage condition

Store in moderate cool, dry well ventilated area away from direct source of heat. Avoid freezing. Empty containers may contain product residues and should be handled accordingly. Position the container so that any labelling information is visible. Keep containers closed.

7.3 Specific end use(s)

Screen printing ink

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Exposure limits: Not applicable

8.2 Exposure controls

Exposure controls

Local exhaust ventilation may be needed to control air contaminants to their exposure limit. Provide mechanical ventilation for confined spaces.

Respiratory protection

Where risk assessment shows air purifying respirators are appropriate use a dust mask type N95 (US) or type P1 (EN 143) respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection

Wear proper gloves when handling the product. Always ensure that gloves are free of defects and that they are stored and used correctly. The performance and effectiveness of the glove may be reduced by physical/chemical damage and poor maintenance. Always wash hands before eating.

Eye protection

Wear safety goggles and face shield. Have an eye-wash station available in the work area.

Body protection

Cotton or cotton/synthetic overalls are usually suitable.

SECTION 9: Physical and chemical properties:

9.1 Information on basic physical and chemical properties

Form	paste
Colour	cream
Odour	mild
PH	6.5
Melting point	not determined
Boiling point	not determined
Auto ignition temperature	not determined
Decomposition temperature	no data available
Explosive properties	no data available
Oxidizing properties	no data available
Viscosity	90,000 +/- 10,000 cps
Flash point	no data available
Lower explosion limit	no data available
Upper explosion limit	no data available
Vapour pressure	<0.001@38°C
Density	1.05
Water solubility	Insoluble

9.2 Other information

The physical specifications are approximate values and refer to the used safety relevant component(s).

SECTION 10: Stability and reactivity

10.1 Reactivity

No hazardous reactions when stored and handled according to prescribed instruction.

10.2 Chemical stability

Stable under recommended storage and handling conditions (see section 7).

10.3 Possibility of hazardous reactions

Not established

10.4 Conditions to avoid

Direct sunlight and extreme heat

10.5 Incompatible materials

Oxidizing agents, acids

10.6 Hazardous Decomposition Products

See chapter 5.2 (Firefighting measures – Special hazards arising from the substance or mixture).

SECTION 11: Toxicological information

11.1 Information on toxicological effect

No data available

Experience in practice

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC, ACGIH, NTP and OSHA. May be harmful if inhaled and may cause respiratory tract irritation. It can cause a slight eye irritation. May be harmful if absorbed through skin and may cause a slight skin irritation. Harmful if swallowed.

Other information

To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated. There are no data on the mixture itself.

SECTION 12: Ecological information

12.1 Toxicity

There is no known published data for this product.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Disposal recommendation for this product

Wastes and emptied containers should be classified in accordance with relevant national regulation. Waste category based on European Council Directive on Waste: 080313 (Appendix A – Consolidated European Waste catalogue) Classified as Non-Hazardous.

For further information contact your local waste authority. Dispose of in accordance with appropriate U.S. Federal State and local regulations of Canada and regulations of EU member countries.

Disposal recommendations for packaging

Using information provided in this safety data sheet, advice should be obtained from the relevant waste authority on the classification of empty containers. Empty containers must be scrapped or reconditioned.

SECTION 14: Transport information

Land transport ARD/RID

Not classified as dangerous goods

Marine transport IMDG/GGVSee

Not classified as dangerous goods

Air transport ICAO/IATA

Not classified as dangerous goods

Canadian TDG Shipping Description

Not regulated

US DOT Classification

Not regulated

SECTION 15: Regulatory information

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

The product is not on the list of controlled substances of the following:
Regulation (EC) No. 2037/2000
Regulation (EC) No. 850/2004
Regulation (EC) No. 1999/13

Other information
All components are contained in the TSCA inventory or exempted.
All components are contained in the AICS inventory.
All components are contained in the PICCS inventory.
All components are contained in the DSL inventory.
All components are contained in the ENCS inventory
All components are contained in the ECL inventory.
US EPA CERCLA hazardous Substances (40CFR 302): Not applicable
California Proposition 65: Not applicable
SARA Title III 302 Extremely Hazardous Substances: Not applicable
SARA Title III 313 Toxic Chemicals: Not applicable
National Pollutant Release Inventory (NPRI): Not applicable

Hazardous Material Information System

Health:	1
Flammability:	0
Reactivity:	0
Personal Protection:	A

SECTION 16: Other information

Supplemental information

This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship. The information on this Safety Data Sheet is based on the present state of knowledge and current legislation.

It provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular applications. The product should not be used for purposes other than shown in Section 1 without first referring to the supplier and obtaining written handling instructions.

As specific conditions of use of the product are outside the supplier's control, the user is responsible for ensuring that the requirements of relevant legislation are compiled with.

The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks, as required by other health and safety legislation.

Therefore the user must assume all risks.